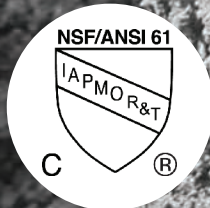




PowerSeal
PIPELINE PRODUCTS CORPORATION



PRICE LIST



FITTING SOLUTIONS FOR HARSH ENVIRONMENTS

PowerSeal Pipeline Products Corporation was formed in 1985 when assets of the Special Products Division of the Clow Corporation were purchased by Edward J. Powers, a vice president and twenty-five year employee of Clow.

The headquarters of the company and its manufacturing are located in Wichita Falls, Texas where it's skilled employees are engaged in the design, manufacture, and sale of a complete line of the highest quality pipeline accessories and tools available.

The end products are primarily used by fluid and gas distribution construction industries for the repair, maintenance, and new construction of potable water and sanitary sewer lines, agricultural irrigation lines, natural gas distribution lines, and low-pressure oil gathering lines.



PowerSeal
PIPELINE PRODUCTS CORPORATION

10.04

TERMS AND CONDITIONS

GENERAL: All orders are subjected to approval and acceptance by PowerSeal's Sales Department. Add-ons to orders must be within 5 days of original order date unless authorization is given by PowerSeal's inside sales personnel.

Acceptance of orders, whether oral or written, is based on the express condition that Buyer agrees to all the terms and conditions contained here-in. Acceptance of delivery by Buyer will constitute Buyer's assent to these terms and conditions. These terms and conditions represent the complete agreement of the parties, and no terms or conditions in any way adding to, modifying or otherwise changing the provisions stated herein shall bind PowerSeal unless made in writing and signed and approved by an officer or other authorized person at the home office of PowerSeal in Wichita Falls, Texas. No modification of any of these terms will be order, shipping request or similar forms containing printed terms and conditions conflicting or inconsistent with the terms herein. Users shall determine the suitability of the product prior to its use.

SHIPPING: All prices are FOB point of manufacture, unless otherwise specified, and are subject to adjustment, with notice, to PowerSeal's prices in effect at the time of shipment. Any increase in transportation rates or any changes in routing resulting in an increase in transportation costs shall be paid and borne by Buyer.

PowerSeal shall not be liable for delays in shipment or default in delivery for any cause beyond PowerSeal's reasonable control as determined by PowerSeal including, but not limited to government action, shortage of labor, raw material, production or transportation facilities, labor difficulty involving employees of PowerSeal or others, fire, flood or other casualty. In the event of any delay in PowerSeal's performance due in whole or in part to any cause beyond PowerSeal's reasonable control as determined by PowerSeal, PowerSeal shall have such additional time for performance as may be reasonably necessary under the circumstances. Acceptance by Buyer of any goods shall constitute a waiver by Buyer of any claim for damages on account of any delay in delivery of such goods.

PowerSeal will use all reasonable efforts to comply with Buyer's request as to method of shipment, but PowerSeal reserves the right to use an alternate method of transportation or route of shipment if substantial delay might otherwise occur. In such cases PowerSeal will notify Buyer of such changes as soon as reasonably possible.

Delivery by truck will be made to nearest points reasonably accessible by truck as determined by the driver. Buyer will furnish and pay for necessary labor to unload and store goods. Buyer shall note loss or damage on truck shipments upon delivery ticket returned to PowerSeal.

CLAIMS: Delivery of goods by PowerSeal to carrier at point of manufacture shall be deemed delivery to Buyer, and thereupon title to such goods, and risk of loss or damage, shall be Buyer's. Claims must be made within ten days following delivery of the product. A signed delivery ticket or bill of lading will reflect the condition, count and description of the product received. Exceptions are to be noted. Seller must be given reasonable time for inspection after notification. Buyer will finish and pay for the necessary labor to unload and store the materials.

PAYMENT: Unless otherwise specified, terms are 2% 15, NET 30days. A service charge of the lesser of 1½% per month at the applicable maximum legal rate will be added to all past due accounts. Until payment in full, PowerSeal retains a purchase money security interest in the goods purchased by Buyer. PowerSeal shall have all rights granted a creditor under Article Nine of the Texas business and Commerce Code. All taxes and excises for any nature whatsoever, now or hereafter levied by governmental authority upon the sale or transportation of any goods covered hereby, shall be paid and borne by Buyer.

PowerSeal reserves the right to require payment for any shipment hereunder in advance, or for the granting of satisfactory security prior to shipment, if the financial responsibility of Buyer becomes unsatisfactory to PowerSeal. If buyer fails to make payment in accordance with the terms of this agreement, or fails to comply with any provision hereof, PowerSeal may, at its option, (and in addition to other remedies) cancel any unshipped portion of this order, Buyer to remain liable for all unpaid accounts. Buyer grants to PowerSeal a security interest in the goods sold by PowerSeal to buyer for any and all indebtedness owed to PowerSeal by Buyer.

WARRANTY: PowerSeal warrants for one year from the day of shipment, that the goods furnished hereunder will be free from defects in material and workmanship and will conform to the material and design (if any) specified by Buyer. This warranty shall not apply to any products which (1) have been repaired or altered outside of PowerSeal factory, in any manner: (2) have been subject to misuse,

negligence or accidents: (3) have been use in a manner contrary to PowerSeal instructions or recommendations. It also does not apply to parts manufactured by others and incorporated in PowerSeal products.

The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether expressed or implied by operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness.

PowerSeal shall not be liable for incidental or consequential losses, damages or expenses, directly or indirectly arising from the sale, handling or use of the goods, or from any other cause relating thereto, and PowerSeal's liability hereunder in any case is expressly limited to the replacement (in form originally shipped) of goods not complying with these agreement, or at PowerSeal's election, the replacement of, or crediting Buyer with an amount equal to the purchase price of such goods whether such claims are for breach of warranty of negligence.

Any and all claims by Buyer with reference to the goods sold hereunder or for any claim shall be deemed waived by Buyer unless submitted to PowerSeal in writing within (30) days from the date Buyer discovered, or should have discovered, any claim breach, but in no event may any claim be made more than one (1) year from the date of shipment of the goods. Any product claimed defective must be available for inspection by PowerSeal upon request.

HPDE PRODUCT: This form of pipe is more susceptible to expansion and contraction than other pipe materials. If questions arise concerning suitability of PowerSeal products in the HDPE section of this publication, please consult with our engineering department.

RETURNS: The agreement cannot be terminated, and goods cannot be returned, without PowerSeal's prior written consent. Special order non-stock items are non-cancelable and non-refundable. Authorized returns are subject to a minimum twenty-five (25%) restock fee or minimum \$25.00 net handling charge. Material returns will be replaced with products of equal value or credited against future purchases.

CANCELLATION: All order are non-cancelable unless written authorization is confirmed by PowerSeal inside sales personnel. Such cancellation is subject to expenses borne by PowerSeal or not of twenty-five (25%) of the order price, whichever is greater.

INTERNATIONAL: International orders will receive Pro Forma invoices upon request and payment is acceptable by Certified Check, Wire Transfer, or Irrevocable Letter of Credit. Standard export quotation pricing in US dollars in FOB PowerSeal Corporation, Wichita Falls, Texas, USA. Cost and freight (C&F) or Cost, Insurance and freight (CIF) quotations are available upon request. International Orders requiring Special Handling, Packaging Consular Invoices, Certificates of origin, Inspection Certificates, etc. are subject to additional charges.

Waiver by PowerSeal of any breach of these terms and conditions shall not be constructed as a waiver of any other breach and failure to exercise any right arising from any default hereunder shall not be deemed a waiver of such right which may be exercised at any subsequent time.

This agreement and all rights and obligations hereunder including matters of construction, validity and performance, shall be governed by laws of the State of Texas, including the Uniform Commercial Code. Any claim by Buyer arising hereunder which cannot be amicably resolved shall be tried in the appropriate state of federal court in Wichita Falls, Texas. Any claim by PowerSeal arising hereunder may, at PowerSeal's option, be tried in the appropriate state of federal court in Wichita Falls, Texas, the jurisdiction of which Buyer hereby submits.

Any dispute concerning goods sold hereunder of the terms of this agreement will be resolved pursuant to arbitration. If this transaction involves interstate commerce the arbitration will be conducted pursuant to the requirements of Title 9 of the United States Code. If this transaction is conducted wholly within the state of Texas and does not involve interstate commerce, the arbitration will be conducted pursuant to the Texas General Arbitration Act.

INDEX & CROSS REFERENCE

Model	Product Description	Cat Page	Power-Seal	Ford	JCM	Romac	Smith-Blair
3121	IRON LUG SINGLE PANEL	17	3121	F1	101UCC	CL1	226
3122	IRON LUG DOUBLE PANEL	44	3122	F2	102UCC	CL2	227
3131	IRON LUG SINGLE PANEL TAPPED REPAIR CLAMP	71	3131	-	103UCC	CL1	238
3132	IRON LUG DOUBLE PANEL TAPPED REPAIR CLAMP	91	3132	-	104UCC	CL2	239
3121AS	ALL STAINLESS SINGLE PANEL	37	3121AS	FS1	161	SS1	261
3122AS	ALL STAINLESS DOUBLE PANEL	54	3122AS	FS2	162	SS2	262
3131AS	ALL STAINLESS SINGLE PANEL TAPPED REPAIR CLAMP	107	3131AS	FS1-T	163	SS1	264
3132AS	ALL STAINLESS DOUBLE PANEL TAPPED REPAIR CLAMP	119	3132AS	FS2-T	-	SS2	265
3122AS-HP	ALL STAINLESS DOUBLE PANEL (HIGH PRESSURE)	59	3122AS-HP	-	136	-	267
3151W	PATCH CLAMP	137	3151W	FSC	110	SC	245
3151AS	ALL STAINLESS PATCH CLAMP	142	3151AS	-	-	C	-
3152	SMALL DIAMETER COMPLETE CIRCLE	147	3152	FSC-W	111	SCC	244
3153	SMALL DIAMETER COMPLETE CIRCLE (2 piece)	149	3153	FSC	-	SCC	244
3140	SMALL DIAMETER COLLAR LEAK	128	3140	FCC	-	-	-
3141	IRON LUGGED COLLAR LEAK	130	3141	F1BC	105	-	229
3143AS	ALL STAINLESS COLLAR LEAK	133	3143AS	-	-	CLC	-
3232	BELL JOINT LEAK CLAMP	154	3232	FBC	142	516	274
3233	A/C COUPLING LEAK REPAIR CLAMP		3233	FBC	142		
3401	BRONZE SADDLE FOR IPS PVC	157	3401	S70	-	101B	
3403	BRONZE SADDLE FOR C900 PVC	159	3403	S90, S91	-	101B	
3407	BRONZE SADDLE FOR ASBESTOS-CEMENT, CAST IRON AND C900 PVC	161	3407	202B	-	101B	
3409	BRONZE SADDLE WITH STAINLESS STEEL STRAPS FOR ASBESTOS CEMENT, CAST IRON AND C900 PVC	163	3409	202BS	-	101BS	
3411AS	ALL STAINLESS SADDLE - SINGLE STUD BOLT DESIGN	165	3411AS	FS303	-	304	371
3412AS	ALL STAINLESS SADDLE - DOUBLE STUD BOLT DESIGN	166	3412AS	FRS202	-	306	372
3414AS	ALL STAINLESS SADDLE - FOUR STUD BOLT DESIGN WITH EXTRA WIDE RANGE	169	3414AS	-	-	-	
3416AS	ALL STAINLESS SADDLE LARGER DIAMETERS - SIX STUD BOLT DESIGN FOR LARGE DIAMETER	171	3416AS	-	-	305	
3411	DUCTILE IRON SADDLE WITH SINGLE BALE	165	3411	F101	401	101	311
3413	DUCTILE IRON SADDLE WITH BALES	191	3413	F202	402	202	313
3415	DUCTILE IRON SADDLE WITH SINGLE STRAP	197	3415	FS101/FC101	405/408	101S	315

Model	Product Description	Cat Page	Power-Seal	Ford	JCM	Romac	Smith-Blair
3417	DUCTILE IRON SADDLE WITH STRAPS	201	3417	-	404/406	202S/202N	317
3417SW	DUCTILE IRON SADDLE WITH SINGLE WIDE STRAP	207	3417SW	FC202/FS202	-	-	-
3417AS	CAST STAINLESS SADDLE WITH STRAPS	183	3417AS	-	-	-	-
3425	POWERSTOP SADDLE	216	3425	-	-	-	-
3460	FABRICATED CARBON STEEL TAP SLEEVE	220	3460	FTS/FTSC	412	FTS420	622
3460	SS TAP SLEEVE W/ SS FLANGE OUTLET	-	3460AS	-	452	-	-
3480CS	SS TAP SLEEVE W/ CS FLANGE OUTLET (FULLY GASKETED)	234	3480CS	FAST	-	SST	662
3480AS	SS TAP SLEEVE W/ FLANGE OUTLET (FULLY GASKE-TED)	235	3480AS	FAST	-	SST	663
3480MJ	SS TAP SLEEVE W/ MECHANICAL JOINT OUTLET (FULLY GASKETED)	241	3480MJ	FAST	-	SST	663
3490CS	SS TAP SLEEVE W/ CS FLANGE OUTLET (DROP IN BOLTS - FULLY GASKETED)	247	3490CS	FTSS	462	SST3	664
3490AS	SS TAP SLEEVE W/ SS FLANGE OUTLET (DROP IN BOLTS - FULLY GASKETED)	247	3490AS	FTSS	432	SST3	665
3490MJ	SS TAP SLEEVE W/ MECHANICAL JOINT OUTLET (DROP IN BOLTS - FULLY GASKETED)	254	3490MJ	-	439	-	-
3490MJ-CS	SS TAP SLEEVE W/ CS MECHANICAL JOINT OUTLET (DROP IN BOLTS - FULLY GASKETED)	254	3490MJ CS	-	469	-	-
3465	HIGH PRESSURE CARBON TAPPING SLEEVE W/ THREADED OUTLET	230	3465AS	-	418	FTS 420-T	-
3495AS	HIGH PRESSURE SS TAPPING SLEEVE W/ THREADED OUTLET (DROP IN BOLTS)	261	3495AS	-	438	-	-
3501	TRANSITION COUPLING	267	3501	FC1	212	501	441
3501LB	LONG BARREL TRANSITION COUPLING	269	3501LB	-	215	-	442
3501EC	ENDCAP COUPLING	272	3501EC	FEC	214	EC501	482
3504	GALVANIZED COMPRESSION COUPLING	273	3504	FRR	220	702	525
3506	POWERMAX COUPLING	274	3506	FC2W	241	XR501	461
3520	TRANSITION CUTTING-IN SLEEVE	278	3520	-	-	-	-
3521	TRANSITION FLANGED COUPLING ADAPTER	280	3521	FFCA	301	FCA501	912
3531	INSTA-FLANGE ADAPTER (LIGHT DUTY)	283	3531	FRC	-	RFF	-
3528	FLANGE COUPLING ADAPTER	308	3528	FCA	303	FC400	913
3538	STEEL FAB COUPLING	310	3538	FC3/FC4	201/211	400/511	411
3540	STEEL FAB LONG BARREL COUPLING	312	3540	FLC	202	400	411
3551	STEEL FAB END CAP COUPLING	313	3551	FC4	-	EC400	481
3562R	STEEL FAB REDUCING COUPLING	314	3562R	FC6	204	RC400	415

TABLE OF CONTENTS

01 CLAMPS

3121 Iron lug songle panel	15
3121 Iron lug songle panel SS bolts	16
3121HD Single panel high pressure heavy duty clamp	17
3121CS Cast stainless lug single panel	18
3121AS All stainless single panel	19
3121AS-LW All stainless sewer clamp	20
3122 Iron lug double panel	21
3122 Iron lug double panel SS bolts	22
3122AS All stainless double panel	23
3122AS HP All stainless double panel (For high pressure applications)	24
3123 Iron lug triple panel	25
3123AS All stainless triple panel	26
3140 Small diameter collar leak	28
3141 Iron lugged collar leak	29
3143AS All stainless collar leak	30
3146 Powercooper joint repair clamp	31
3151W Patch clamp	32
3151AS-W All stainless patch clamp	34
3151HD Largediameterheavy duty patch clamp	35
3152W Small diameter complete circle	36
3153PS-W Small diameter complete circle	37
3202/3202LB Split sleeve repair clamp	38
3232 Bell joint leak clamp	39
3233 A/C Coupling leak repair clamp	40
Emergency repair clamp kit	41

02 SADDLES

3401 Bronze saddle for IPS PVC	45
3402 Bronze saddle for copper tubing	45
3403 Bronze saddle for c900 PVC	46
3407 Bronze saddle for asbestos-cement. cast iron and c900 PVC	47
3409 Bronze saddle with stainless steel straps for asbestos cement, cast iron and c900 PVC	47
3411AS All stainless saddle - Single stud bolt design	48
3412AS All stainless saddle - double stud bolt design	49

3421AS Single strap all stainless saddle "wide range"	49
3416AS All stainless saddle larger diameters	50
3414AS All stainless wide range saddle	51
3422AS Double strap all stainless saddle "wide range"	52
3415AS Cast stainless saddle with single strap	53
3450AS All stainless Saddlecorp	54
3417AS Cast stainless saddle with straps	56
3411DI Ductile iron saddle with bale	57
3413DI Ductile iron saddle with bales	58
3415DI Ductile iron saddle sibgle strap	59
3417DI Ductile iron saddle with straps	60
3417SW Ductile iron saddle with single wide strap	61
SEWER SADDLE Sewer saddle	62

03 TAPPING SLEEVES

3425AS Powerstop saddle	66
3428-3431 Powerseal tap connections (Field weld)	68
3460CS Fabricated carbon steel tap sleeve	69
3460CS-MJ Carbon steel tap sleeve w/mechanical joint outlet	70
3460AS Stainless steel tap sleeve (High pressure)	72
3460AS-MJ Stainless steel tap sleeve w/mechanical joint outlet	73
3465 Carbon steel tap sleeve w/threaded outlet	75
3480AS/3480CS Stainless steel tap sleeve w/flange outlet	74
3480MJ/3480MJ-CS stainless steel tap sleeve w/mechanical joint outlet	76
3490AS/3490CS Stainless steel tap sleeve w/flange outlet	78
3490MJ/3490MJ-CS Stainless steel tap sleeve w/mechanical joint outlet	80
3495AS Stainless steel tap sleeve w/threaded outlet	84

04 COUPLINGS

3501 Transition coupling	87
3501LB Long barrel transition coupling	88
3504 Small diameter compression coupling	90
3506 Powermax coupling	90
3506LB Powermax coupling	91
3506AS All stainless powermax coupling	91
3506R Powermax reducing coupling	92

3520 Transition cutting-in sleeve	93
3521 Transition flanged coupling adapter	94
3526 Powermax flanged coupling adapter	95
3531 Insta-flange adapter	96
3532 Insta-flange adapter (Heavy duty)	97
End Cap add-on	98

05 SPECIALTIES

3900 Complete units for IPS thin wall plastic pipe	101
4900 Complete units for plastic sewer pipe "Y" connections	102
5900 Combination units for IPS thin wall plastic pipe only	103
7900 Complete units for asbestos cement (A/C) pipe	104
9000 Complete units for c900 thick wall plastic pipe	105
9900 Combination units for c900 thick wall plastic pipe	106
PARTS Drills and shell cutters	107
PARTS Drive handles	108
PARTS Adapters	109
PARTS Miscellaneous	111
4810 Casing chock	112
4860 Polyethylene casing chock	113
4890 Polyethylene casing chock	114
5000 Valve box aligner	115
6960 - 6962 Ratchet sets with deep sockets	116
ID MARKERS Manhole id markers	117
8010 Poly box / Locking lid	118

06 STEEL FABRICATIONS

3528 Flange coupling adapter	121
Steel coupling	122
3538 Coupling	123
3562R Reducing coupling	126
3563 Expansion joints	127
3563 Dismantling joint	128

07 AIR VALVES

5401 Air release valve	132
5402 Air / Vacuum valve	133
5403 Combination valve	134
5404 Sewage air release valve	135
5406 Sewage air/vacuum valve	136
5407 Sewage combination valve	137
5408 Well service air/vacuum valve	138
5390 Globe style metal seat	139
5396 Threaded style bronze body	140
5397 Wafer style metal seat	140
5398 Foot valve	141
5981 Split disc butterfly check valve	142

08 HDPE

3121AS-PE All stainless single panel	146
3122AS-PE All stainless double panel	146
3412AS-PE All Stainless saddle	147
3414AS-PE All stainless wide range saddle	148
3416AS-PE All stainless saddle larger diameters	149
3422AS-PE Double strap all stainless saddle "Wide range"	150
3417DI-PE Ductile iron saddle with straps	151
3480AS / 3480CS SS-PE Stainless steel tap sleeve w/flange outlet	152
3480MJ-PE / 3480MJCS-PE Stainless steel tap sleeve w/mechanical joint outlet	152
3530 HDPE stiffener insert	153

09 PARTS

Repair clamps parts.	155
Complete circle repair clamp bolt quantity chart.	156
Repair clamp add-on list prices	157
Saddles & sleeves parts	158
Cast couplings - miscellaneous	160
Coupling / adapter bolt quantity chart	161

SPECIFICATION REFERENCE

AWWA C111 Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings	Hot-Dipped, Zinc-Coated, Welded and Seamless ASTM A126 Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings	Steel Nut ASTM A582/A582M Standard Specification for Free-Machining Stainless Steel Bars
AWWA C115 Flanged Ductile-Iron Pipe With Ductile-Iron or Gray-Iron Threaded Flanges	ASTM A148/A148M Standard Specification for Steel Castings, High Strength, for Structural Purposes	ASTM A743 / A743M Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application
AWWA C207 Steel Pipe Flanges for Waterworks Service Sizes 4 In. Through 144 In. (100 mm Through 3,600 mm)	ASTM A193 / A193M Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications	ASTM B62 Standard Specification for Composition Bronze or Ounce Metal Castings
AWWA C210 Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines	ASTM A194 / A194M Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both	ASTM B98 / B98M Standard Specification for Copper-Silicon Alloy Rod, Bar and Shapes
AWWA C219 Bolted, Sleeve-Type Couplings for Plain-End Pipe	ASTM A240 / A240M Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications	ASTM B584 Standard Specification for Copper Alloy Sand Castings for General Applications
AWWA C223 Fabricated Steel and Stainless Steel Tapping Sleeves	ASTM A242/A242M Standard Specification for High-Strength Low-Alloy Structural Steel	ASTM D149 Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies
AWWA C230 Stainless-Steel Full-Encirclement Repair and Service Connection Clamps	ASTM A276 Standard Specification for Stainless Steel Bars and Shapes	ASTM D638 Standard Test Method for Tensile Properties of Plastics
AWWA C800 Underground Service Line Valves & Fittings	ASTM A283/A283M Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates	ASTM D2000 Standard Classification System for Rubber Products in Automotive Applications
AWWA C900 Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 12 In. (100 mm Through 300 mm), for Water Transmission and Distribution	ASTM A285/A285M Standard Specification for Pressure Vessel Plates, Carbon Steel, Low- and Intermediate-Tensile Strength	ASTM D6778 Standard Classification System and Basis for Specification for Polyoxymethylene Molding and Extrusion Material-sMSS SP-60
AWWA C905 Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 In. Through 48 In. (350 mm Through 1,200 mm) for Water Transmission and Distribution	ASTM A307 Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60000 PSI Tensile Strength	Connecting Flange Joints between Tapping Sleeves and Tapping Valves. ISO 7005-1 Pipe flanges -- Part 1: Steel flanges for industrial and general service piping systems
AWWA C906 Polyethylene (PE) Pressure Pipe and Fittings 4 In. (100 mm) Through 63 In. (1,600 mm) for Water Distribution and Transmission	ASTM A313/A313M Standard Specification for Stainless Steel Spring Wire	ASME / ANSI B16.5 Pipe Flanges and Flanged Fittings
AWWA C909 Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 In. Through 24 In. (100 mm Through 600 mm) for Water, Wastewater, and Reclaimed Water Service	ASTM A325 Standard Specification for High Strength Bolts For Structural Steel Joints	AISI 1020 Low Carbon/Low Tensile Steel
ASTM A36 / A36M Standard Specification for Carbon Structural Steel	ASTM A512 Standard Specification for Cold-Drawn Buttweld Carbon Steel Mechanical Tubing	
ASTM A48/A48 Standard Specification for Gray Iron Castings	ASTM A536 Standard Specification for Ductile Iron Castings	
ASTM A53 / A53M Standard Specification for Pipe, Steel, Black and	ASTM A563 Standard Specification for Carbon and Alloy	

PIPE O.D CHART

Type/Material		3	4	6	8	10	12	14	16	18	20	24	30
Copper Steel Plastic	Copper Tubing	3.13	4.13	6.13	-	-	-	-	-	-	-	-	-
	Steel and IPS Plastic	3.50	4.50	6.63	8.63	10.75	12.75	14.00	16.00	18.00	20.00	24.00	30.00
	Plastic AWWA C900	-	4.80	6.90	9.05	11.10	13.20	15.30	17.40	19.50	21.60	25.80	32.00
Cast and Ductile Iron	Class 100-250 AWWA	3.96	4.80	6.90	9.05	11.10	13.20	15.30	17.40	19.50	21.60	25.80	32.00
	Class A AWWA Pit Cast	3.80	4.80	6.90	9.05	11.10	13.20	15.30	17.40	19.50	21.60	25.80	31.74
	Class B AWWA Pit Cast	3.96	5.00	7.10	9.05	11.10	13.20	15.30	17.40	19.50	21.60	25.80	32.00
	Class C-D AWWA Pit Cast	3.96	5.00	7.10	9.30	11.40	13.50	15.65	17.80	19.92	22.06	26.32	*
*Pit cast 30" Class C is 32.04" OD and Class D is 32.74" OD													
Class 100 Asbestos Cement	Machined End	3.74	4.64	6.91	9.11	11.24*	13.44*	15.07	17.15	19.90	22.12	26.48	33,12
	Flintite Rough Barrel	3.94	4.90	7.13	9.33	11.30	13.42	15.45	17.60	-	-	-	-
	Fluid-Tite Rough Barrel	3.93	5.05	7.16	9.32	11.46	13.70	15.36	17.50	20.44	22.50	27.17	-
	Permaflex Rough Barrel	-	4.84	7.15	9.35	11.47	13.74	15.55	17.55	20.50	22.70	27.15	-
	Ring-Tite & Transite Rough Barrel	3.95	4.92	7.19	9.39	11.47	13.74	15.51	17.65	20.44	22.68	27.12	33,80
	Standard Rough Barrel (Min)	-	4.79	7.05	9.22	11.25	13.37	15.36	17.50	-	-	-	-
	Standard Rough Barrel (Max)	-	5.26	7.40	9.57	11.77	14.04	15.80	17.94	-	-	-	-
*Flintite 10" Machined end is 10.89" OD and 12" ME is 12.99" OD													
Class 150 Asbestos Cement	Machined End	3.84	4.81	6.91	9.11	11.66	13.92	16.22	18.46	20.94	23.28	27.96	35.00
	Flintite Rough Barrel	4.04	5.06	7.13	9.33	11.88	14.14	16.48	18.72	-	-	-	-
	Fluid-Tite Rough Barrel	4.03	5.14	7.12	9.32	11.85	14.11	16.41	18.65	-	-	-	-
	Permaflex Rough Barrel	-	5.00	7.20	9.40	11.92	14.20	16.50	18.72	21.30	23.64	28.32	-
	Ring-Tite & Transite Rough Barrel	4.13	5.07	7.17	9.37	11.92	14.18	16.48	18.72	21.30	23.64	28.32	35.42
	Standard Rough Barrel (Min)	-	4.97	7.07	9.27	11.82	14.08	16.38	18.62	-	-	-	-
	Standard Rough Barrel (Max)	-	5.32	7.37	9.62	12.12	14.38	16.73	18.97	-	-	-	-
Class 200 Asbestos Cement	Machined End	3.84	4.81	6.91	9.11	11.66	13.92	16.22	18.46	22.18	24.66	29.62	37.06
	Flintite Rough Barrel	4.17	5.32	7.26	9.44	11.88	14.14	16.53	18.84	-	-	-	-
	Fluid-Tite Rough Barrel	4.18	5.32	7.36	9.46	11.88	14.11	16.44	18.74	-	-	-	-
	Permaflex Rough Barrel	-	5.32	7.25	9.50	11.95	14.20	16.55	18.90	22.54	25.02	29.98	-
	Ring-Tite & Transite Rough Barrel	4.17	5.33	7.32	9.50	11.92	14.18	16.55	18.90	22.54	25.02	29.98	37.48
	Standard Rough Barrel (Min)	-	5.22	7.26	9.39	11.77	14.03	16.44	18.74	-	-	-	-
	Standard Rough Barrel (Max)	-	5.57	7.60	9.79	12.12	14.38	16.88	19.19	-	-	-	-

Class	36	42	48
Cast Iron Class A	37.96	44.20	50.50
Cast Iron Class B	38.30	44.50	50.80
Cast Iron Class C	38.70	45.10	51.40
Cast Iron Class D	39.16	45.58	51.98

Material	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Copper Tubing	0.63	0.88	1.13	1.38	1.63	2.13	2.63
IPS Tubing	0.84	1.05	1.32	1.66	1.90	2.38	2.88

PIPE O.D CHART

Type/Material		4	6	8	10	12	14	15	16	18	20	24	30
Sewer Pipe	A/C Sewer Class 1500	4.81	6.92	9.02	11.12	13.22	15.30	16.34	17.38	-	-	-	-
	A/C Sewer Class 2400	4.87	6.98	9.04	11.16	13.26	15.36	16.42	17.46	19.54	21.66	25.78	-
	A/C Sewer Class 3300	5.05	7.14	9.22	11.36	13.50	15.46	16.66	17.72	19.82	21.88	26.10	32.34
	A/C Sewer Class 4000	-	-	-	11.50	13.64	15.78	16.84	17.90	20.02	22.10	26.32	32.60
	A/C Sewer Class 5000	-	-	-	11.70	13.86	16.00	17.06	18.14	20.36	22.32	26.60	32.90
	Asbestos Cement ACME	4.62	6.66	8.96	11.05	13.15	15.23	16.11	17.31	19.39	21.45	25.67	32.13
	PVC Plastic SDR 35	4.22	6.28	8.40	10.50	12.50	-	-	-	-	-	-	-
	PVC Plastic SDR 41	4.22	6.28	8.16	10.20	12.24	-	15.30	-	18.70	-	24.80	-
	Cast Iron Soil Pipe (No Hub)	4.38	6.30	8.38	-	-	-	-	-	-	-	-	-
	Cast Iron Soil Pipe (Service Weigth)	4.30	6.30	8.38	10.50	12.50	-	-	-	-	-	-	-
	Cast Iron Soil Pipe (Extra Heavy)	4.62	6.62	8.75	10.88	12.88	-	-	-	-	-	-	-
	Clay Minimum	5.00	7.19	9.25	11.50	13.75	-	17.19	-	20.65	-	27.50	34.38
	Clay Maximum	5.38	7.56	9.75	12.00	14.31	-	17.81	-	21.44	-	28.50	35.63
	Concrete (Average)	6.00	8.00	10.25	12.75	15.50	-	18.75	-	22.00	-	29.00	35.50
Irrigation Pipe	Asbestos Cement Irrigation Type 5	4.74	6.70	9.02	11.12	13.22	-	-	-	-	-	-	-
	Asbestos Cement Irrigation Type 15	4.86	6.81	9.04	11.16	13.26	-	-	-	-	-	-	-
	Asbestos Cement Irrigation Type 25	4.97	7.10	9.27	11.31	13.74	-	-	-	-	-	-	-
	Plastic Irrigation Pipe (PIP)	4.13	6.14	8.16	10.20	12.24	-	15.30	-	18.70	22.05	24.80	-

CONVERSION CHART

Centimeters	X	0.3937	=	Inches	Gallons of Water	X	8.3453	=	Pounds
Centimeters	X	0.01	=	Meters	Inches	X	2.54	=	Centimeters
Centimeters	X	10	=	Millimeters	Kilograms	X	2.205	=	Pounds (Av)
Centigrade	X	1.8(+32)	=	Fahrenheit	Megapascals (Mpa)	X	145	=	Pounds/Square Inch
Circumference	X	0.3183	=	Diameter	Meters	X	3.281	=	Feet
Cubic Feet	X	1728	=	Cubic Inches	Meters	X	1.094	=	Yards
Cubic Feet	X	7.48052	=	Gallons	Millimeters	X	0.039	=	Inches
Cubic Feet	X	0.028	=	Cubic Meters	Pounds/Square Inch	X	0.06895	=	Bars
Cubic Inches	X	16.387	=	Cubic Centimeters	Pounds/Square Inch	X	2.307	=	Feet of Water
Cubic Meters	X	35.315	=	Cubic Feet	Pounds	X	16	=	Ounces
Cubic Meters	X	1.308	=	Cubic Yards	Square Centimeters	X	0.155	=	Square Inches
Cubic Yards	X	0.765	=	Cubic Meters	Square Feet	X	144	=	Square Inches
Diameter	X	3.142	=	Circumference	Square Feet	X	0.093	=	Square Meters
Fahrenheit(-32)	X	0.556	=	Centigrade	Square Inches	X	6.452	=	Square Centimeters
Feet of Water	X	0.4335	=	Pounds/Square Inch	Square Meters	X	10.764	=	Square Feet
Gallons	X	0.1337	=	Cubic Feet	Square Yards	X	0.836	=	Square Meters
Gallons	X	8	=	Pints	Yards	X	0.914	=	Meters
Gallons	X	4	=	Quarts					



REPAIR

CLAMPS



PowerSeal
PIPELINE PRODUCTS CORPORATION

WWW.POWERSEAL.COM

REPAIR CLAMPS



3121

1 1/4" pipe size and larger in widths of 5" up to 48", ductile iron lugged stainless steel single panel repair clamp.



3121AS

1 1/4" pipe size and larger in widths of 6" to 48", all stainless steel repair clamp.



3121CS

1 1/4" pipe size and larger repair clamp with cast stainless steel drop-in bolt lug design.



3121HD

1 1/4" pipe size and larger heavy duty ductile iron lug design stainless steel repair clamp for unique and special pressure applications.



3121AS-LW

1 1/4" pipe size and larger all stainless steel repair clamp for sewer applications.



3122

3" pipe size and larger ductile iron lugged stainless steel 2-panel wide range repair clamp.



3122AS

3" pipe size and larger all stainless steel 2-panel wide range repair clamp.



3122AS-HP

4" pipe size and larger stainless steel heavy lug design all stainless steel repair clamp for high pressure applications.



3123AS

10" pipe size and larger all stainless steel 3-panel wide range repair clamp.



3123

10" pipe size and larger ductile iron lug stainless steel 3-panel wide range repair clamp.



3131

2" pipe size and larger ductile iron lugged stainless steel repair clamp with tapped outlet, available with NPT or AWWA (CC) tapped outlets 1/2" - 3".



3131AS

2" pipe size and larger all stainless steel repair clamp with tapped outlet, available with NPT or AWWA (CC) tapped outlets 1/2" - 3".



3132

3" pipe size and larger ductile iron lugged stainless steel 2-panel wide range tapped outlet repair clamp, available with NPT or AWWA (CC) tapped outlets 1/2" - 3".



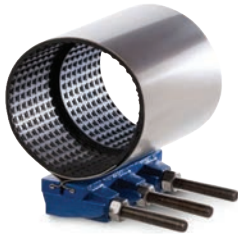
3132AS

3" pipe size and larger all stainless steel 2-panel wide range tapped outlet repair clamp, available with NPT or AWWA (CC) tapped outlets 1/2" - 3".



3140

3/4" - 2 1/2" pipe sizes cast lug pipe repair clamp for the repair of leaking sch 40 pipe collars.



3141

2" - 15" pipe sizes iron lugged stainless steel collar leak clamp capable of repairing leaks in solvent weld PVC, PIP bells and collars as well as threaded steel pipe collars.



3143AS

3" - 15" pipe sizes all stainless steel collar leak clamp.



3146

1/2" - 4" pipe sizes cast lug pipe repair clamp for the repair of leaking copper coupling joints.



3151

1/2" - 12" pipe sizes cast lug partial gasket repair clamp for repairing pinhole leaks in all types of pipe.



3151AS - W

1/2" - 12" pipe sizes all stainless partial gasket repair clamp for repairing pinhole leaks in all types of pipe.



3151HD

10" - 30" pipe sizes ductile iron lugged stainless steel patch clamp partial gasket.



3152W

1/2" - 2" pipe sizes cast lug complete wraparound repair clamp for repairing pinhole leaks in all types of pipe.



3153PS - W

1/2" - 2" pipe sizes cast lug complete wraparound repair clamp (2-piece) for repairing pinhole leaks in all types of pipe.



3202 - 3202 LB SPLIT SLEEVE

6" - 8" pipe sizes ductile iron cast bodied split repair sleeves also available with a 3/4" NPT/CC tapped outlet and plug for venting purposes. Only available for DI/CI pipe ODs.



3233AC Bell Clamp

4" - 8" pipe sizes ductile iron bell repair clamp for class 150 AC pipe only.



3232DI/CI Bell Clamp

3" - 30" pipe sizes ductile iron bell joint repair clamp, for caulked & push-on cast iron and ductile iron pipe joints. Larger sizes available in fabricated version.



PowerSeal EMERGENCY REPAIR CLAMP KIT

The PowerSeal Emergency Repair Clamp Kit (POWER BOX) provides a proactive approach to pipe repair. This kit covers a wide range of pipe diameters from 4.50" to 33.74" O.D., and is ready to repair your water utility emergency situation regardless of pipe size.

3121

IRON LUG SINGLE PANEL WITH ALLOY BOLTS AND NUTS

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available. Other materials available on request.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111

LUGS: Ductile Iron per ASTM A536.



MEETS
AWWA
C230

HOW TO ORDER: 6" Ductile Iron O.D. 6.90 with stainless steel bolts and 12" length Repair Clamp. **See page 27 for tapped outlets.**
ORDER: 312106C120AA-SB.

Nominal Pipe Size			Pipe OD Range		Part Number	Length / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
1 1/4	26	-	1.66	42	3121012 + Length	\$179.00	\$266.90	\$300.50	\$362.80	P.O.A	P.O.A	P.O.A
1 1/2	38	-	1.88 - 1.92	48 - 49	3121015 + Length	\$179.00	\$266.90	\$300.50	\$362.80	P.O.A	P.O.A	P.O.A
2	50	-	2.35 - 2.63	60 - 67	3121020 + Length	\$179.00	\$266.90	\$300.50	\$362.80	P.O.A	P.O.A	P.O.A
2 1/2	63	-	2.70 - 3.00	69 - 77	3121025 + Length	\$194.20	\$287.40	\$334.20	\$391.00	P.O.A	P.O.A	P.O.A
3	75	A	2.97 - 3.25	75 - 83	312103A + Length	\$217.50	\$311.00	\$362.60	\$431.90	P.O.A	P.O.A	P.O.A
		B	3.46 - 3.70	88 - 94	312103B + Length							
		C	3.73 - 4.00	95 - 102	312103C + Length							
		D	3.96 - 4.25	101 - 108	312103D + Length							
4	100	A	4.45 - 4.73	113 - 120	312104A + Length	\$234.60	\$324.00	\$395.50	\$463.70	\$622.90	\$782.10	\$941.20
		B	4.74 - 5.14	120 - 131	312104B + Length							
		C	4.95 - 5.35	126 - 136	312104C + Length							
		D	5.22 - 5.62	133 - 143	312104D + Length							
6	150	A	5.95 - 6.35	151 - 161	312106A + Length	\$276.90	\$375.50	\$442.80	\$527.30	\$745.60	\$909.40	\$1,086.30
		B	6.56 - 6.96	167 - 177	312106B + Length							
		C	6.84 - 7.24	174 - 184	312106C + Length							
		D	7.05 - 7.45	179 - 189	312106D + Length							
		E	7.45 - 7.85	189 - 199	312106E + Length							
8	200	A	7.95 - 8.35	202 - 212	312108A + Length	\$325.00	\$430.20	\$520.60	\$631.70	\$859.20	\$1,027.50	\$1,209.40
		B	8.54 - 8.94	217 - 227	312108B + Length							
		C	8.99 - 9.39	228 - 239	312108C + Length							
		D	9.27 - 9.67	235 - 246	312108D + Length							
10	250	A	9.70 - 10.10	246 - 257	312110A + Length	\$427.40	\$577.40	\$663.80	\$836.50	\$1,118.40	\$1,255.00	\$1,227.90
		B	10.64 - 11.04	270 - 280	312110B + Length							
		C	11.04 - 11.44	280 - 291	312110C + Length							
		D	11.34 - 11.74	288 - 298	312110D + Length							
		E	11.75 - 12.15	298 - 309	312110E + Length							
12	300	A	12.00 - 12.40	305 - 315	312112A + Length	\$481.90	\$641.10	\$772.90	\$963.90	\$1,273.00	\$1,486.90	\$1,927.70
		B	12.62 - 13.02	321 - 331	312112B + Length							
		C	13.10 - 13.50	333 - 343	312112C + Length							
		D	13.40 - 13.80	340 - 351	312112D + Length							
		E	13.70 - 14.10	348 - 358	312112E + Length							
		F	14.00 - 14.40	356 - 366	312112F + Length							

3121 IRON LUG SINGLE PANEL WITH STAINLESS STEEL BOLTS AND NUTS

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000 . Other materials available. Other materials available on request.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Ductile Iron per ASTM A536.



MEETS
AWWA
C230

HOW TO ORDER: 6" Ductile Iron O.D. 6.90 with stainless steel bolts and 12" length Repair Clamp. See page 27 for tapped outlets.
ORDER: 312106C120BA-SB.

Nominal Pipe Size			Pipe OD Range		Part Number	Length / List price						
In	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
1 1/4	26	-	1.66	42	3121012 + Length	\$233.10	\$342.90	\$397.80	\$476.80	P.O.A	P.O.A	P.O.A
1 1/2	38	-	1.88 - 1.92	48 - 49	3121015 + Length	\$233.10	\$342.90	\$397.80	\$476.80	P.O.A	P.O.A	P.O.A
2	50	-	2.35 - 2.63	60 - 67	3121020 + Length	\$233.10	\$342.90	\$397.80	\$476.80	P.O.A	P.O.A	P.O.A
2 1/2	63	-	2.70 - 3.00	69 - 77	3121025 + Length	\$248.30	\$387.40	\$431.50	\$505.00	P.O.A	P.O.A	P.O.A
3	75	A	2.97 - 3.25	75 - 83	312103A + Length	\$271.60	\$363.40	\$459.90	\$545.90	P.O.A	P.O.A	P.O.A
		B	3.46 - 3.70	88 - 94	312103B + Length							
		C	3.73 - 4.00	95 - 102	312103C + Length							
		D	3.96 - 4.25	101 - 108	312103D + Length							
4	100	A	4.45 - 4.73	113 - 120	312104A + Length	\$288.70	\$400.00	\$495.50	\$577.70	\$774.90	\$972.10	\$1,169.20
		B	4.74 - 5.14	120 - 131	312104B + Length							
		C	4.95 - 5.35	126 - 136	312104C + Length							
		D	5.22 - 5.62	133 - 143	312104D + Length							
6	150	A	5.95 - 6.35	151 - 161	312106A + Length	\$331.00	\$451.50	\$492.80	\$641.30	\$897.60	\$1,099.30	\$1,314.30
		B	6.56 - 6.96	167 - 177	312106B + Length							
		C	6.84 - 7.24	174 - 184	312106C + Length							
		D	7.05 - 7.45	179 - 189	312106D + Length							
		E	7.45 - 7.85	189 - 199	312106E + Length							
8	200	A	7.95 - 8.35	202 - 212	312108A + Length	\$379.10	\$506.20	\$617.90	\$745.70	\$1,011.20	\$1,217.40	\$1,437.40
		B	8.54 - 8.94	217 - 227	312108B + Length							
		C	8.99 - 9.39	228 - 239	312108C + Length							
		D	9.27 - 9.67	235 - 246	312108D + Length							
10	250	A	9.70 - 10.10	246 - 257	312110A + Length	\$481.50	\$653.40	\$761.10	\$950.50	\$1,270.40	\$1,444.90	\$1,455.90
		B	10.64 - 11.04	270 - 280	312110B + Length							
		C	11.04 - 11.44	280 - 291	312110C + Length							
		D	11.34 - 11.74	288 - 298	312110D + Length							
		E	11.75 - 12.15	298 - 309	312110E + Length							
12	300	A	12.00 - 12.40	305 - 315	312112A + Length	\$536.00	\$717.10	\$870.20	\$1,077.90	\$1,425.00	\$1,676.80	\$2,155.70
		B	12.62 - 13.02	321 - 331	312112B + Length							
		C	13.10 - 13.50	333 - 343	312112C + Length							
		D	13.40 - 13.80	340 - 351	312112D + Length							
		E	13.70 - 14.10	348 - 358	312112E + Length							
		F	14.00 - 14.40	356 - 366	312112F + Length							

SINGLE PANEL HEAVY DUTY CLAMP WITH ALLOY BOLTS AND NUTS

3121HD



MEETS
AWWA
C230

- BAND:** Type 304 (18-8) Stainless Steel per ASTM A240.
- GASKET:** SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of 25°F to +200°F, per ASTM D2000. Other materials available on request.
- ARMOR PLATE:** Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.
- BOLTS & NUTS:** 3/4" diameter low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111. Optional SS available.
- LUGS:** Ductile Iron per ASTM A536.

NOTE: EXACT PIPE OD MUST BE PROVIDED AT TIME OF ORDER.

HOW TO ORDER: 6" Ductile Iron O.D. 6.90 with alloy bolts and 12" length Repair Clamp. See page 27 for tapped outlets.
ORDER: 312106C120AA-HD

Nominal Pipe Size			Pipe OD Range		Part Number	Length / List price				
Inches	MM	Letter	Inches	MM		10in 250MM	15in 350MM	20in 500MM	25in 650MM	30in 750MM
1 1/4	26	-	1.66	42	3121012 + Length	\$533.80	\$725.60	P.O.A	P.O.A	P.O.A
1 1/2	38	-	1.88 - 1.92	48 - 49	3121015 + Length	\$533.80	\$725.60	P.O.A	P.O.A	P.O.A
2	50	-	2.35 - 2.63	60 - 67	3121020 + Length	\$533.80	\$725.60	P.O.A	P.O.A	P.O.A
2 1/2	63	-	2.70 - 3.00	69 - 77	3121025 + Length	\$574.80	\$782.00	P.O.A	P.O.A	P.O.A
3	75	A	2.97 - 3.25	75 - 83	312103A + Length	\$ 622.00	\$863.80	P.O.A	P.O.A	P.O.A
		B	3.46 - 3.70	88 - 94	312103B + Length					
		C	3.73 - 4.00	95 - 102	312103C + Length					
		D	3.96 - 4.25	101 - 108	312103D + Length					
4	100	A	4.45 - 4.73	113 - 120	312104A + Length	\$648.00	\$927.40	\$1,245.80	\$1,564.20	\$1,882.40
		B	4.74 - 5.14	120 - 131	312104B + Length					
		C	4.95 - 5.35	126 - 136	312104C + Length					
		D	5.22 - 5.62	133 - 143	312104D + Length					
6	150	A	5.95 - 6.35	151 - 161	312106A + Length	\$751.00	\$1,054.60	\$ 1,491.20	\$1,818.80	\$2,172.70
		B	6.56 - 6.96	167 - 177	312106B + Length					
		C	6.84 - 7.24	174 - 184	312106C + Length					
		D	7.05 - 7.45	179 - 189	312106D + Length					
		E	7.45 - 7.85	189 - 199	312106E + Length					
8	200	A	7.95 - 8.35	202 - 212	312108A + Length	\$860.40	\$1,263.40	\$1,718.40	\$2,055.00	\$2,418.80
		B	8.54 - 8.94	217 - 227	312108B + Length					
		C	8.99 - 9.39	228 - 239	312108C + Length					
		D	9.27 - 9.67	235 - 246	312108D + Length					
10	250	A	9.70 - 10.10	246 - 257	312110A + Length	\$1,154.80	\$1,673.00	\$2,236.80	\$2,510.00	\$2,455.80
		B	10.64 - 11.04	270 - 280	312110B + Length					
		C	11.04 - 11.44	280 - 291	312110C + Length					
		D	11.34 - 11.74	288 - 298	312110D + Length					
		E	11.75 - 12.15	298 - 309	312110E + Length					
12	300	A	12.00 - 12.40	305 - 315	312112A+ Length	\$1,282.20	\$1,927.80	\$2,546.00	\$2,973.80	\$3,855.40
		B	12.62 - 13.02	321 - 331	312112B+ Length					
		C	13.10 - 13.50	333 - 343	312112C+ Length					
		D	13.40 - 13.80	340 - 351	312112D+ Length					
		E	13.70 - 14.10	348 - 358	312112E+ Length					
		F	14.00 - 14.40	356 - 366	312112F+ Length					

3121CS

CAST SS SINGLE PANEL REPAIR CLAMP WITH SS BOLTS AND NUTS

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000 . Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Type 304 (CF8) Cast Stainless Steel per ASTM A743.

HOW TO ORDER: 6" Ductile Iron O.D. 6.90 with SS bolts and 12" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312106C080CS-SB



Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
1 1/4	26	-	1.66	42	3121012 + Width +OCS-SB	\$240.40	\$300.50	\$360.50	\$480.70	\$601.00	\$721.00	\$961.40
1 1/2	38	-	1.88 - 1.92	48 - 49	3121015 + Width +OCS-SB	\$240.40	\$300.50	\$360.50	\$480.70	\$601.00	\$721.00	\$961.40
2	50	-	2.35 - 2.63	60 - 67	3121020 + Width +OCS-SB	\$240.40	\$300.50	\$360.50	\$480.70	\$601.00	\$721.00	\$961.40
2 1/2	63	-	2.70 - 3.00	69 - 77	3121025 + Width +OCS-SB	\$253.20	\$315.70	\$376.20	\$504.00	\$609.80	\$756.40	\$1,008.00
3	75	A	2.97 - 3.25	75 - 83	312103+Letter+Width+OCS-SB	\$277.70	\$349.40	\$421.10	\$519.40	\$628.50	\$842.20	\$1,038.30
		B	3.46 - 3.70	88 - 94								
		C	3.73 - 4.00	95 - 102								
		D	3.96 - 4.25	101 - 108								
4	100	A	4.45 - 4.73	113 - 120	312104+Letter+Width+OCS-SB	\$305.80	\$402.20	\$498.60	\$647.60	\$757.40	\$960.70	\$1,301.50
		B	4.74 - 5.14	120 - 131								
		C	4.95 - 5.35	126 - 136								
		D	5.22 - 5.62	133 - 143								
6	150	A	5.95 - 6.35	151 - 161	312106+Letter+Width+OCS-SB	\$341.50	\$463.90	\$586.20	\$680.90	\$898.60	\$1,129.60	\$1,456.90
		B	6.56 - 6.96	167 - 177								
		C	6.84 - 7.24	174 - 184								
		D	7.05 - 7.45	179 - 189								
		E	7.45 - 7.85	189 - 199								
8	200	A	7.95 - 8.35	202 - 212	312108+Letter+Width+OCS-SB	\$408.20	\$537.00	\$665.80	\$774.00	\$1,010.40	\$1,257.50	\$1,608.20
		B	8.54 - 8.94	217 - 227								
		C	8.99 - 9.39	228 - 239								
		D	9.27 - 9.67	235 - 246								
10	250	A	9.70 - 10.10	246 - 257	312110+Letter+Width+OCS-SB	\$530.70	\$728.40	\$926.00	\$984.50	\$1,381.10	\$1,756.30	\$2,080.30
		B	10.64 - 11.04	270 - 280								
		C	11.04 - 11.44	280 - 291								
		D	11.34 - 11.74	288 - 298								
		E	11.75 - 12.15	298 - 309								
12	300	A	12.00 - 12.40	305 - 315	312112+Letter+Width+OCS-SB	\$596.00	\$813.00	\$1,030.00	\$1,107.00	\$1,505.00	\$1,973.10	\$2,384.10
		B	12.62 - 13.02	321 - 331								
		C	13.10 - 13.50	333 - 343								
		D	13.40 - 13.80	340 - 351								
		E	13.70 - 14.10	348 - 358								
		F	14.00 - 14.40	356 - 366								

ALL STAINLESS SINGLE PANEL REPAIR CLAMP

3121AS

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F, per ASTM D2000 . Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Delrin per ASTM D6778.



HOW TO ORDER: 6" Ductile Iron O.D. 6.90 and 8" length Repair Clamp. See page 27 for tapped outlets.**ORDER:** 312106C080CA

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
1 1/4	26	-	1.66	42	3121012 + Width +OCA	\$217.20	\$302.20	\$361.30	\$389.00	\$439.20	P.O.A	P.O.A
1 1/2	38	-	1.88 - 1.92	48 - 49	3121015 + Width +OCA	\$217.20	\$302.20	\$361.30	\$389.00	\$439.20	P.O.A	P.O.A
2	50	-	2.35 - 2.63	60 - 67	3121020 + Width +OCA	\$217.20	\$302.20	\$361.30	\$389.00	\$439.20	P.O.A	P.O.A
2 1/2	63	-	2.70 - 3.00	69 - 77	3121025 + Width +OCA	\$225.70	\$313.10	\$369.70	\$400.60	\$485.00	P.O.A	P.O.A
3	75	A	2.97 - 3.25	75 - 83	312103+Letter+Width+OCA	\$236.90	\$327.40	\$383.70	\$433.20	\$555.80	P.O.A	P.O.A
		B	3.46 - 3.70	88 - 94								
		C	3.73 - 4.00	95 - 102								
		D	3.96 - 4.25	101 - 108								
4	100	A	4.45 - 4.73	113 - 120	312104+Letter+Width+OCA	\$267.20	\$364.10	\$424.50	\$472.00	\$715.80	\$960.20	\$1,171.40
		B	4.74 - 5.14	120 - 131								
		C	4.95 - 5.35	126 - 136								
		D	5.22 - 5.62	133 - 143								
6	150	A	5.95 - 6.35	151 - 161	312106+Letter+Width+OCA	\$319.80	\$433.20	\$510.60	\$563.20	\$849.50	\$1,069.00	\$1,391.80
		B	6.56 - 6.96	167 - 177								
		C	6.84 - 7.24	174 - 184								
		D	7.05 - 7.45	179 - 189								
		E	7.45 - 7.85	189 - 199								
8	200	A	7.95 - 8.35	202 - 212	312108+Letter+Width+OCA	\$374.70	\$496.30	\$601.40	\$687.20	\$973.60	\$1,212.10	\$1,522.00
		B	8.54 - 8.94	217 - 227								
		C	8.99 - 9.39	228 - 239								
		D	9.27 - 9.67	235 - 246								
10	250	A	9.70 - 10.10	246 - 257	312110+Letter+Width+OCA	\$499.30	\$656.90	\$783.40	\$900.20	\$1,202.00	\$1,493.80	\$2,043.60
		B	10.64 - 11.04	270 - 280								
		C	11.04 - 11.44	280 - 291								
		D	11.34 - 11.74	288 - 298								
		E	11.75 - 12.15	298 - 309								
12	300	A	12.00 - 12.40	305 - 315	312112+Letter+Width+OCA	\$566.90	\$751.80	\$907.90	\$1,026.70	\$1,425.80	\$1,693.30	\$2,417.00
		B	12.62 - 13.02	321 - 331								
		C	13.10 - 13.50	333 - 343								
		D	13.40 - 13.80	340 - 351								
		E	13.70 - 14.10	348 - 358								
		F	14.00 - 14.40	356 - 366								

3121AS-LW

ALL STAINLESS SEWER REPAIR CLAMP

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F, per ASTM D2000 . Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Delrin per MIL-A50424.

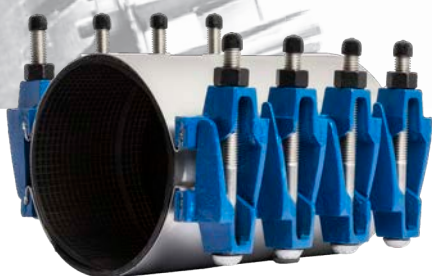


HOW TO ORDER: 6" Ductile Iron O.D. 6.90 and 8" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312106C080LW.

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
1 1/4	26	-	1.66	42	3121012 + Width +OLW	\$217.20	\$302.20	\$361.30	\$389.00	\$439.20	P.O.A	P.O.A
1 1/2	38	-	1.88 - 1.92	48 - 49	3121015 + Width +OLW	\$217.20	\$302.20	\$361.30	\$389.00	\$439.20	P.O.A	P.O.A
2	50	-	2.35 - 2.63	60 - 67	3121020 + Width +OLW	\$217.20	\$302.20	\$361.30	\$389.00	\$439.20	P.O.A	P.O.A
2 1/2	63	-	2.70 - 3.00	69 - 77	3121025 + Width +OLW	\$225.70	\$313.10	\$369.70	\$400.60	\$485.00	P.O.A	P.O.A
3	75	A	2.97 - 3.25	75 - 83	312103+Letter+Width+OLW	\$236.90	\$327.40	\$383.70	\$433.20	\$555.80	P.O.A	P.O.A
		B	3.46 - 3.70	88 - 94								
		C	3.73 - 4.00	95 - 102								
		D	3.96 - 4.25	101 - 108								
4	100	A	4.45 - 4.73	113 - 120	312104+Letter+Width+OLW	\$267.20	\$364.10	\$424.50	\$472.00	\$715.80	\$960.20	\$1,171.40
		B	4.74 - 5.14	120 - 131								
		C	4.95 - 5.35	126 - 136								
		D	5.22 - 5.62	133 - 143								
6	150	A	5.95 - 6.35	151 - 161	312106+Letter+Width+OLW	\$319.80	\$433.20	\$510.60	\$563.20	\$849.50	\$1,069.00	\$1,391.80
		B	6.56 - 6.96	167 - 177								
		C	6.84 - 7.24	174 - 184								
		D	7.05 - 7.45	179 - 189								
		E	7.45 - 7.85	189 - 199								
8	200	A	7.95 - 8.35	202 - 212	312108+Letter+Width+OLW	\$374.70	\$496.30	\$601.40	\$687.20	\$973.60	\$1,212.10	\$1,522.00
		B	8.54 - 8.94	217 - 227								
		C	8.99 - 9.39	228 - 239								
		D	9.27 - 9.67	235 - 246								
10	250	A	9.70 - 10.10	246 - 257	312110+Letter+Width+OLW	\$499.30	\$656.90	\$783.40	\$900.20	\$1,202.00	\$1,493.80	\$2,043.60
		B	10.64 - 11.04	270 - 280								
		C	11.04 - 11.44	280 - 291								
		D	11.34 - 11.74	288 - 298								
		E	11.75 - 12.15	298 - 309								
12	300	A	12.00 - 12.40	305 - 315	312112+Letter+Width+OLW	\$566.90	\$751.80	\$907.90	\$1,026.70	\$1,425.80	\$1,693.30	\$2,417.00
		B	12.62 - 13.02	321 - 331								
		C	13.10 - 13.50	333 - 343								
		D	13.40 - 13.80	340 - 351								
		E	13.70 - 14.10	348 - 358								
		F	14.00 - 14.40	356 - 366								

IRON LUG DOUBLE BAND REPAIR CLAMP WITH ALLOY BOLTS AND NUTS

3122



BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F, per ASTM D2000 . Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111.

LUGS: Ductile Iron per ASTM A536.



HOW TO ORDER: 6" Ductile Iron O.D. 6.90 and 8" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312106C080AA-LB

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
3	75	-	3.49 - 4.29	89 - 109	3122030+Width+0AA-LB	\$326.20	\$431.10	\$509.00	\$648.60	\$968.50	P.O.A	P.O.A
4	100	A	4.44 - 5.24	113 - 133	312204+Letter+Width+0AA-LB	\$326.20	\$431.10	\$509.00	\$648.60	\$968.50	P.O.A	P.O.A
		B	4.74 - 5.57	120 - 141								
6	150	A	6.62 - 7.42	168 - 188	312206+Letter+Width+0AA-LB	\$378.40	\$486.50	\$567.70	\$756.80	\$1,009.10	\$1,259.20	\$1,546.80
		B	6.84 - 7.64	174 - 194								
8	200	A	8.62 - 9.42	219 - 239	312208+Letter+Width+0AA-LB	\$427.90	\$540.60	\$630.70	\$860.40	\$1,421.30	\$1,421.30	\$1,725.30
		B	8.99 - 9.79	228 - 249								
10	250	A	10.75 - 11.55	273 - 293	312210+Letter+Width+0AA-LB	\$448.90	\$720.70	\$997.30	\$1,085.60	\$1,441.50	\$1,802.00	\$2,162.30
		B	11.10 - 11.90	282 - 302								
		D	11.60 - 12.40	295 - 315								
12	300	A	12.75 - 13.55	324 - 344	312212+Letter+Width+0AA-LB	\$575.30	\$801.80	\$1,132.20	\$1,189.20	\$1,590.20	\$1,984.50	\$2,378.50
		B	13.20 - 14.00	335 - 356								
		D	13.65 - 14.45	347 - 367								
14	350	A	14.38 - 15.13	365 - 384	312214+Letter+Width+0AA-LB	\$841.30	\$1,342.50	\$1,438.90	\$1,932.50	\$2,369.80	\$3,284.10	\$3,955.20
		B	15.07 - 15.82	383 - 402								
16	400	A	15.92 - 16.67	404 - 423	312216+Letter+Width+0AA-LB	POA	\$1,849.80	\$1,849.80	\$2,176.20	\$2,950.40	\$3,686.80	\$4,425.60
		B	16.56 - 17.31	421 - 440								
		C	17.15 - 17.90	436 - 455								
18	450	A	17.82 - 18.57	453 - 472	312218+Letter+Width+0AA-LB	POA	\$1,890.00	\$1,890.00	\$2,223.40	\$3,002.40	\$3,774.40	\$4,550.80
		B	18.46 - 19.21	469 - 488								
		C	19.23 - 19.98	488 - 507								
20	500	A	19.90 - 20.65	505 - 525	312220+Letter+Width+0AA-LB	POA	\$2,029.80	\$2,029.80	\$2,388.60	\$3,238.40	\$4,067.80	\$4,900.00
		B	20.70 - 21.45	526 - 545								
22	550	A	21.52 - 22.27	547 - 566	312222+Letter+Width+0AA-LB	POA	\$3,411.20	\$3,411.20	\$4,013.20	\$5,210.40	\$6,719.20	\$8,231.60
		B	22.12 - 22.87	562 - 581								
		C	22.90 - 23.65	582 - 601								

3122

IRON LUG DOUBLE BAND REPAIR CLAMP WITH SS BOLTS AND NUTS

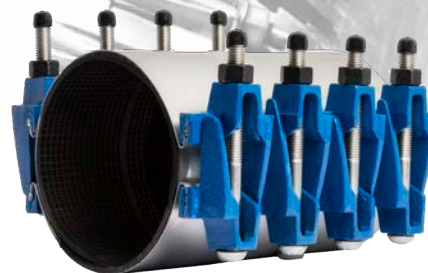
BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F, per ASTM D2000 . Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Ductile Iron per ASTM A536.



HOW TO ORDER: 6" Ductile Iron O.D. 6.90 and 8" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312206C080BA-LB

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
3	75	-	3.49 - 4.29	89 - 109	3122030+Width+0BA-LB	\$434.40	\$583.10	\$703.60	\$876.70	\$1,272.60	P.O.A	P.O.A
4	100	A	4.44 - 5.24	113 - 133	312204+Letter+Width+0BA-LB	\$434.40	\$583.10	\$703.60	\$876.70	\$1,272.60	P.O.A	P.O.A
		B	4.74 - 5.57	120 - 141								
6	150	A	6.62 - 7.42	168 - 188	312206+Letter+Width+0BA-LB	\$486.60	\$638.50	\$762.30	\$984.90	\$1,313.20	\$1,639.10	\$2,002.80
		B	6.84 - 7.64	174 - 194								
8	200	A	8.62 - 9.42	219 - 239	312208+Letter+Width+0BA-LB	\$536.10	\$ 692.60	\$825.30	\$1,088.50	\$1,725.40	\$1,801.20	\$2,181.30
		B	8.99 - 9.79	228 - 249								
10	250	A	10.75 - 11.55	273 - 293	312210+Letter+Width+0BA-LB	\$557.10	\$872.70	\$1,191.90	\$1,313.70	\$1,745.60	\$2,181.90	\$2,618.30
		B	11.10 - 11.90	282 - 302								
		D	11.60 - 12.40	295 - 315								
12	300	A	12.75 - 13.55	324 - 344	312212+Letter+Width+0BA-LB	\$683.50	\$953.80	\$1,326.80	\$1,417.30	\$1,894.30	\$2,288.60	\$2,834.50
		B	13.20 - 14.00	335 - 356								
		D	13.65 - 14.45	347 - 367								
14	350	A	14.38 - 15.13	365 - 384	312214+Letter+Width+0BA-LB	\$949.50	\$1,494.00	\$1,633.50	\$2,160.60	\$2,673.90	\$3,664.00	\$4,411.20
		B	15.07 - 15.82	383 - 402								
16	400	A	15.92 - 16.67	404 - 423	312216+Letter+Width+0BA-LB	POA	\$1,958.00	\$2,001.80	\$2,370.80	\$3,178.50	\$3,990.90	\$4,805.50
		B	16.56 - 17.31	421 - 440								
		C	17.15 - 17.90	436 - 455								
18	450	A	17.82 - 18.57	453 - 472	312218+Letter+Width+0BA-LB	POA	\$1,998.20	\$2,042.00	\$2,418.00	\$3,230.50	\$4,078.50	\$4,930.70
		B	18.46 - 19.21	469 - 488								
		C	19.23 - 19.98	488 - 507								
20	500	A	19.90 - 20.65	505 - 525	312220+Letter+Width+0BA-LB	POA	\$2,138.00	\$2,181.80	\$2,583.20	\$3,466.50	\$4,371.90	\$5,279.90
		B	20.70 - 21.45	526 - 545								
22	550	A	21.52 - 22.27	547 - 566	312222+Letter+Width+0BA-LB	POA	\$3,519.40	\$3,563.20	\$4,207.80	\$5,438.50	\$7,023.30	\$8,611.50
		B	22.12 - 22.87	562 - 581								
		C	22.90 - 23.65	582 - 601								

ALL STAINLESS STEEL DOUBLE BAND REPAIR CLAMP

3122AS



BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F, per ASTM D2000 . Other materials available.

ARMOR PLATE:Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Type 304 (18-8) Stainless steel per ASTM A240

WASHERS: Derlin per ASTM D6778.



HOW TO ORDER: 6" Ductile Iron O.D. 6.90 and 8" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312206C080CA

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
3	75	-	3.49 - 4.29	89 - 109	3122030+Width+OCA	\$421.60	\$553.80	\$655.80	\$784.10	\$1,050.00	\$1,342.90	P.O.A
4	100	A	4.44 - 5.24	113 - 133	312204+Letter+Width+OCA	\$421.60	\$553.80	\$655.80	\$784.10	\$1,050.00	\$1,342.90	P.O.A
		B	4.74 - 5.57	120 - 141								
6	150	A	6.62 - 7.42	168 - 188	312206+Letter+Width+OCA	\$484.70	\$623.60	\$710.30	\$917.10	\$1,251.80	\$1,645.90	\$1,771.80
		B	6.84 - 7.64	174 - 194								
8	200	A	8.62 - 9.42	219 - 239	312208+Letter+Width+OCA	\$554.80	\$692.40	\$806.90	\$1,050.00	\$1,421.40	\$1,879.80	\$1,998.40
		B	8.99 - 9.79	228 - 249								
10	250	A	10.75 - 11.55	273 - 293	312210+Letter+Width+OCA	\$560.90	\$907.90	\$1,246.10	\$1,306.80	\$1,742.40	\$2,316.40	\$2,610.80
		B	11.10 - 11.90	282 - 302								
		D	11.60 - 12.40	295 - 315								
12	300	A	12.75 - 13.55	324 - 344	312212+Letter+Width+OCA	\$718.90	\$1,040.80	\$1,414.80	\$1,494.80	\$2,017.50	\$2,573.30	\$2,940.20
		B	13.20 - 14.00	335 - 356								
		D	13.65 - 14.45	347 - 367								
14	350	A	14.38 - 15.13	365 - 384	312214+Letter+Width+OCA	\$1,030.60	\$1,391.80	\$1,798.10	\$2,004.20	\$2,713.80	\$3,210.40	\$3,380.10
		B	15.07 - 15.82	383 - 402								
16	400	A	15.92 - 16.67	404 - 423	312216+Letter+Width+OCA	POA	POA	\$2,336.40	\$2,536.00	\$3,368.90	\$4,475.10	\$5,195.60
		B	16.56 - 17.31	421 - 440								
		C	17.15 - 17.90	436 - 455								
18	450	A	17.82 - 18.57	453 - 472	312218+Letter+Width+OCA	POA	POA	\$2,574.30	\$2,828.90	\$3,831.50	\$5,191.10	\$5,799.80
		B	18.46 - 19.21	469 - 488								
		C	19.23 - 19.98	488 - 507								
20	500	A	19.90 - 20.65	505 - 525	312220+Letter+Width+OCA	POA	POA	\$4,093.50	\$4,449.50	\$6,042.40	\$8,205.50	\$9,155.30
		B	20.70 - 21.45	526 - 545								
22	550	A	21.52 - 22.27	547 - 566	312222+Letter+Width+OCA	POA	POA	\$4,165.60	\$4,577.60	\$6,225.50	\$8,466.70	\$9,338.40
		B	22.12 - 22.87	562 - 581								
		C	22.90 - 23.65	582 - 601								

3122AS HP

ALL STAINLESS DOUBLE BAND (For high pressure applications)

Exact Pipe OD must be provided with orders

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F, per ASTM D2000 . Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Type 304 (18-8) Stainless Steel per ASTM A240.

END RINGS: Type 304 (18-8) Stainless Steel per ASTM A240.



MEETS
AWWA
C230

HOW TO ORDER: 12" O.D. 13.20 and 16" length Repair Clamp. See page 27 for tapped outlets.

ORDER: 312212X160CA-HP

Nominal Pipe Size		Part Number	Width / List Price			
Inches	MM		16in / 400MM	20in / 500MM	24in / 600MM	30in / 750MM
4	100	312204X+Width+OCA-HP	\$1,568.20	\$2,100.00	\$2,685.80	POA
6	150	312206X+Width+OCA-HP	\$1,834.20	\$2,503.60	\$3,291.80	\$3,543.60
8	200	312208X+Width+OCA-HP	\$2,100.00	\$2,842.80	\$3,759.60	\$3,996.80
10	250	312210X+Width+OCA-HP	\$2,613.60	\$3,484.80	\$4,632.80	\$5,221.60
12	300	312212X+Width+OCA-HP	\$2,989.60	\$4,035.00	\$5,146.60	\$5,880.40
14	350	312214X+Width+OCA-HP	\$4,008.40	\$5,427.60	\$6,420.80	\$6,760.20
16	400	312216X+Width+OCA-HP	\$5,072.00	\$6,737.80	\$8,950.20	\$10,391.20
18	450	312218X+Width+OCA-HP	\$5,657.80	\$7,663.00	\$10,382.20	\$11,599.60
20	500	312220X+Width+OCA-HP	\$8,899.00	\$12,084.80	\$16,411.00	\$18,310.60
22	550	312222X+Width+OCA-HP	\$9,155.20	\$12,451.00	\$16,933.40	\$18,676.80

IRON LUG TRIPLE BAND REPAIR CLAMP WITH ALLOY BOLTS AND NUTS

3123



BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Low alloy steel per ASTM A325, ASTM A563, and AWWA C111. Optional stainless steel materials available with fusion bonded anti-galling coated nuts.

LUGS: Ductile iron per ASTM A536



HOW TO ORDER: 24" Cast Iron O.D. 25.80 and 36" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312324C360AA-LB.

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
10	250	A	11.04 - 12.24	280 - 311	312310A+Width+0AA-LB	\$660.60	\$772.90	\$962.70	\$1,152.40	\$1,527.30	\$1,916.10	\$2,305.10
12	300	A	13.14 - 14.34	334 - 364	312312+Letter+Width+0AA-LB	\$757.00	\$838.60	\$1,042.40	\$1,246.20	\$1,658.40	\$2,070.80	\$2,483.00
		B	13.65 - 14.85	347 - 377								
14	350	A	14.95 - 16.05	377 - 408	312314+Letter+Width+0AA-LB	\$1,100.10	\$1,506.40	\$1,552.10	\$1,841.10	\$2,492.90	\$3,304.70	\$4,116.30
		B	15.92 - 17.12	404 - 435								
16	400	A	17.15 - 18.35	436 - 466	312316+Letter+Width+0AA-LB	\$1,129.00	\$1,522.90	\$1,639.30	\$1,985.20	\$2,688.20	\$3,523.40	\$4,356.80
		B	18.46 - 19.66	469 - 499								
18	450	A	19.45 - 20.65	494 - 525	312318A+Width+0AA-LB							
20	500	A	21.52 - 22.72	547 - 577	312320A+Width+0AA-LB	\$1,249.70	\$1,670.40	\$1,813.70	\$2,055.10	\$2,782.70	\$3,752.80	\$4,722.30
22	550	A	22.80 - 24.00	579 - 610	312322A+Width+0AA-LB	POA	POA	\$2,015.20	\$2,283.40	\$3,091.90	\$4,169.80	\$5,247.00
24	600	A	23.28 - 24.48	591 - 622	312324+Letter+Width+0AA-LB	POA	POA	\$2,718.60	\$3,822.90	\$5,186.10	\$6,517.10	\$7,842.40
		B	24.38 - 25.58	619 - 650								
		C	25.70 - 26.90	653 - 683								
		D	26.48 - 27.68	673 - 703								
		E	27.65 - 28.85	702 - 733								
		F	28.73 - 29.93	730 - 760								
30	750	A	29.62 - 30.82	752 - 783	312330+Letter+Width+0AA-LB	POA	POA	POA	\$6,371.50	\$8,643.50	\$10,861.80	\$13,070.70
		B	31.74 - 32.94	806 - 837								
		C	32.40 - 33.60	823 - 853								
36	900	A	37.93 - 39.13	963 - 994	312336+Letter+Width+0AA-LB	POA	POA	POA	\$10,619.20	\$14,405.80	\$18,103.00	\$21,784.50
		B	38.54 - 39.74	979 - 1009								
		C	39.16 - 40.36	995 - 1025								
		D	39.55 - 40.75	1005 - 1035								
48	1200	A	50.10 - 51.30	1273 - 1303	312348+Letter+Width+0AA-LB	POA	POA	POA	POA	\$18,007.30	\$22,628.80	\$27,230.60
		B	50.72 - 51.92	1288 - 1319								
		C	51.34 - 52.54	1304 - 1335								
		D	51.72 - 52.92	1314 - 1344								

3123AS

ALL STAINLESS TRIPLE BAND REPAIR CLAMP

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing galling.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

WASHERS: Delrin per ASTM D6778.



HOW TO ORDER: 24" O.D. 25.80 and 36" length Repair Clamp. See page 27 for tapped outlets. **ORDER:** 312324C360CA.

Nominal Pipe Size			Pipe OD Range		Part Number	Width / List price						
Inches	MM	Letter	Inches	MM		8in 200MM	10in 250MM	12in 300MM	16in 400MM	20in 500MM	24in 600MM	30in 750MM
10	250	A	11.04 - 12.24	280 - 311	312310A+Width+OCA	\$857.90	\$1,148.70	\$1,441.60	\$1,943.90	\$2,793.10	\$2,840.20	\$3,260.00
12	300	A	13.14 - 14.34	334 - 364	312312+Letter+Width+OCA	\$982.90	\$1,276.20	\$1,636.60	\$2,076.00	\$2,873.40	\$3,152.00	\$3,671.00
		B	13.65 - 14.85	347 - 377								
14	350	A	14.95 - 16.05	377 - 408	312314+Letter+Width+OCA	\$1,298.40	\$1,956.00	\$2,015.30	\$2,613.90	\$3,472.60	\$3,634.40	\$5,345.20
		B	15.92 - 17.12	404 - 435								
16	400	A	17.15 - 18.35	436 - 466	312316+Letter+Width+OCA	\$1,466.00	\$2,002.40	\$2,128.60	\$2,665.70	\$3,614.10	\$4,468.30	\$5,659.30
		B	18.46 - 19.66	469 - 499								
18	450	A	19.45 - 20.65	494 - 525	312318A+Width+OCA	\$1,544.40	\$2,085.70	\$2,241.90	\$2,842.70	\$3,812.30	\$4,518.80	\$5,895.80
20	500	A	21.52 - 22.72	547 - 577	312320A+Width+OCA	\$1,622.80	\$2,169.00	\$2,355.10	\$3,019.70	\$4,010.40	\$4,569.30	\$6,132.30
22	550	A	22.80 - 24.00	579 - 610	312322A+Width+OCA	POA	POA	\$2,505.90	\$3,355.20	\$4,456.00	\$5,077.80	\$6,813.70
24	600	A	23.28 - 24.48	591 - 622	312324+Letter+Width+OCA	POA	POA	\$2,656.70	\$3,869.10	\$5,213.80	\$5,979.40	\$7,548.90
		B	24.38 - 25.58	619 - 650								
		C	25.70 - 26.90	653 - 683								
		D	26.48 - 27.68	673 - 703								
		E	27.65 - 28.85	702 - 733								
		F	28.73 - 29.93	730 - 760								
30	750	A	29.62 - 30.82	752 - 783	312330+Letter+Width+OCA	POA	POA	POA	\$6,448.50	\$8,689.70	\$10,871.60	\$13,243.70
		B	31.74 - 32.94	806 - 837								
		C	32.40 - 33.60	823 - 853								
36	900	A	37.93 - 39.13	963 - 994	312336+Letter+Width+OCA	POA	POA	POA	\$10,747.50	\$14,842.30	\$18,119.30	\$22,072.80
		B	38.54 - 39.74	979 - 1009								
		C	39.16 - 40.36	995 - 1025								
		D	39.55 - 40.75	1005 - 1035								
48	1200	A	50.10 - 51.30	1273 - 1303	312348+Letter+Width+OCA	POA	POA	POA	POA	\$18,103.30	\$22,649.10	\$27,591.00
		B	50.72 - 51.92	1288 - 1319								
		C	51.34 - 52.54	1304 - 1335								
		D	51.72 - 52.92	1314 - 1344								

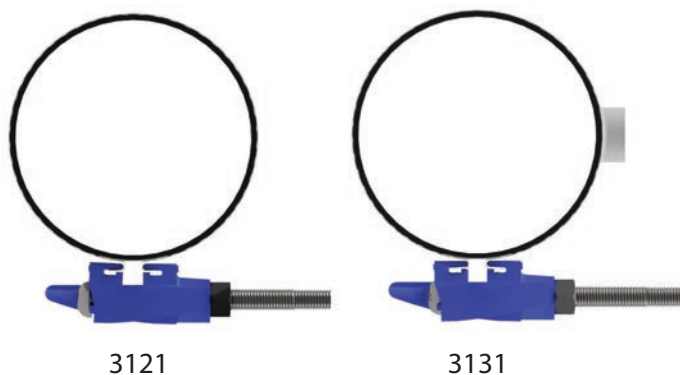
OUTLET AVAILABLE FOR REPAIR CLAMPS 3121, 3122, 3123, 3121AS, 3122AS, 3123AS

All repair clamps build with 304 stainless steel outlet and shall be passivated so as to return the welded stainless steel to its original corrosion resistant state

To add-on a Tapped Outlet to a Repair Clamp, change the model number as noted above and specify the Tapped Clamp, Outlet Size and Thread Type. Combine the Clamp and Outlet List Prices for a total price. Example: 3121 6C X 12 Tapped Clamp with a 3/4"CC Outlet. Order 3131-6C X 12 X 3/4CC. Part Number: 313106C120AB

REPAIR CLAMPS TAPPED OUTLET ADD-ON LIST PRICES

Outlet Size	Thread Type	Add-On List Price	Outlet Code	Minimum Pipe OD	Minimum Clamp Length
3/4"	CC (AWWA)	\$ 99.90	B	2.38"	6"
1"	CC (AWWA)	\$ 99.90	D	2.38"	6"
1 1/4"	CC (AWWA)	\$ 156.60	F	2.88"	8"
1 1/2"	CC (AWWA)	\$ 156.60	H	3.50"	8"
2"	CC (AWWA)	\$ 191.70	J	4.50"	8"
3/4"	IP (NPT)	\$ 99.90	C	2.38"	6"
1"	IP (NPT)	\$ 99.90	E	2.38"	6"
1 1/4"	IP (NPT)	\$ 156.60	G	2.88"	8"
1 1/2"	IP (NPT)	\$ 156.60	I	3.50"	8"
2"	IP (NPT)	\$ 156.60	K	3.50"	8"
3"	IP (NPT)	\$ 419.40	O	6.63"	12"



Model Number	
Repair Clamp	Tapped Clamp
3121	3131
3122	3132
3123	3133
3121AS	3131AS
3122AS	3132AS
3123AS	3133AS

REPAIR CLAMPS ADD-ON LIST PRICES

Component Description	Part Number	Product Size	List Price	Unit
Fluoro-coat bolt and nut list add on (5/8")	-8	All sizes	\$ 4.20	Per Bolt
Electrical Conductivity Buttons	-3	8 - 16" Width	\$ 45.60	Per Clamp
Electrical Conductivity Buttons	-3	20 - 36"	\$ 55.50	Per Clamp
Never Gall bolt and nut list add on (5/8")	-NG	All sizes	\$7.70	Per bolt

How to order: Add part number -3 at end of part number. Example: 312106C120AA-SB3

3140 SMALL DIAMETER COLLAR LEAK REPAIR CLAMP

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: NBR multi-O-Ring stepped design from 100 % new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water and salt media with a temperature range of -40°F to +248°F

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, bonded to the gasket.

BOLTS & NUTS: Carbon steel per ASTM A307, with electro-galvanized dichromate finish for added corrosion resistance.

LUGS: Ductile iron per ASTM A536 with electro-galvanized finish.

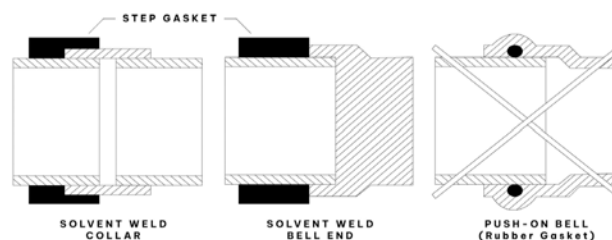


Nominal Pipe Size		Pipe OD Range		Collar Type	Part Number	Width / List Price			
Inches	MM	Inches	MM			3 In	80 MM	6 In	150 MM
3/4	20	1.05	27	Sch 40 Collar/ API Line Pipe/ EUE Tubing	3140+Pipe size+width+ Collar type	\$51.20		\$94.80	
1	25	1.32	33			\$53.20		\$96.70	
1 1/4	32	1.66	42			\$55.00		\$98.70	
1 1/2	40	1.90	48			\$70.00		\$137.20	
2	50	2.38	61			\$70.80		\$139.70	
2 1/2	65	2.88	73			\$75.80		\$143.70	

Collar type	
Sch 40 collar	HA
API Line pipe	PA
EUE Tubing	RA

Sch = Schedule API = American Petroleum Institute
EUE = External Upset End - SDR = Standard Dimension Ratio

PowerSeal Collar Leak Repair Clamps provide a simple and permanent repair for leaking Solvent Weld PVC Bells and Collars as well as threaded Steel Pipe Collars. Since Collar Leak Clamps are designed to seal on both the outside diameter of the pipe and the leaking collar or bell, it is important that the proper clamp is ordered. These repair clamps are not recommended for leaking Push- On-Joint (gasketed) Bells.



HOW TO ORDER: Specify Model Number, Pipe Size with Collar Type, and Width. EXAMPLE: 2" Steel O.D. 2.38 with 3" wide Schedule 40 Collar. Order 3140 - 2" Sch 40 x 3. **Part Number:** 3140+Pipe size+width+Collar type = 3140020030HA

IRON LUGGED COLLAR LEAK REPAIR CLAMP

3141

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: NBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +248°F per ASTM D2000. Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket. and AWWA C111. Optional Stainless Steel materials available with fusion bonded anti-galling coated nuts.

LUGS: Ductile Iron per ASTM A536



Collar type	Width - 6inch	Width - 8inch
Sch 40 collar	HA	AH
SDR 26 Bell	UA	AU
API Line pipe	PA	AP
EUE Tubing	RA	AR

Nominal Pipe Size		Pipe OD Range		Collar Type	Part Number	Width / List Price			
Inches	MM	Inches	MM			6 In	150 MM	8 In	200 MM
2	50	2.38	61	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing	3141+Pipe size+Width+ Collar type	\$113.20	\$130.10		
2 1/2	65	2.88	73			\$117.50	\$135.00		
3	80	3.50	89			\$129.50	\$148.90		
3 1/2	90	4.00	102			\$137.90	\$158.50		
4	100	4.50	114	PIP 80 Bell		\$157.40	\$180.90		
		4.13	105						
5	125	5.56	141	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing		\$180.00	\$206.90		
6	150	6.63	168						
		6.14	156	PIP 80 Bell					
8	200	8.63	219	Sch 40 Collar/ SDR 26 Bell		\$200.90	\$230.90		
		8.14	207	PIP 80 Bell					
10	250	10.75	273	Sch 40 Collar/ SDR 26 Bell		\$203.00	\$233.30		
		10.20	259	PIP 80 Bell					
12	300	12.75	324	Sch 40 Collar/ SDR 26 Bell		\$269.80	\$310.10		
		12.24	311	PIP 80 Bell					
15	375	15.30	389	PIP 80 Bell		\$321.20	\$369.20		

HOW TO ORDER: Specify Model Number, Pipe Size with Collar Type, and Width. **EXAMPLE:** 4" Steel O.D. 4.50 with 6" wide Schedule 40 Collar. Order 3141-4" Sch 40 x 6. **Part Number:** 3141+Pipe size+Width+Collar type = 3141040060HA.

3143AS

ALL STAINLESS COLLAR LEAK REPAIR CLAMP

BAND & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: NBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +248°F per ASTM D2000. Other materials available.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing galling.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

WASHERS: Delrin per ASTM D6778.



Collar type	Width - 8inch
Sch 40 Collar	AJ
SDR 26 Bell	UJ
API Line pipe	PJ
EUE Tubing	RJ
PIP 80 Bell	VJ

Nominal Pipe Size		Pipe OD Range		Collar Type	Part Number	Width / List Price		
Inches	MM	Inches	MM			8 In	150 MM	
3	80	3.50	89	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing	3143+Pipe size+width+0 +Collar type	\$295.40		
3 1/2	90	4.00	102			\$326.40		
4	100	4.50	114			\$357.30		
		4.13	105	PIP 80 Bell				
5	125	5.56	141	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing		\$435.70		
6	150	6.63	168					PIP 80 Bell
		6.14	156					
8	200	8.63	219	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing		\$531.40		
		8.14	207	PIP 80 Bell				
10	250	10.75	273	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing		\$648.80		
		10.20	259	PIP 80 Bell				
12	300	12.75	324	Sch 40 Collar/ SDR 26 Bell/ API Line Pipe/ EUE Tubing		\$790.20		
		12.24	311	PIP 80 Bell				
15	375	15.30	389	PIP 80 Bell		\$963.70		

HOW TO ORDER: Specify Model Number and Pipe Size with collar type, and width. Example: 4" Steel O.D. 4.50 with 8" wide schedule 40 collar. Order 3143AS - 4" Sch 40 x 8.

Part number: 3143+Pipe size+width+0+Collar type 3143040080JA.

POWERCOPPER JOINT REPAIR CLAMP 3146

(For use in repairing solvent weld copper connections on copper pipe)



BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: Molded Waffle NBR design from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40° to +248°F.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, bonded to the gasket.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111. Optional Stainless Steel materials available with fusion bonded anti-galling coated nuts.

LUGS: Ductile Iron per ASTM A536 with electro galvanized finish.



Nominal Pipe Size		CTS-OD Range		Width		Part Number	List Price
Inches	MM	Inches	MM	Inches	MM		
1/2	15	0.625	18	3	80	3146005030WT	\$49.20
3/4	20	0.875	22	3	80	3146007030WT	\$52.50
1	25	1.125	29	3	80	3146010030WT	\$54.20
1 - 1/4	32	1.375	35	3	80	3146012030WT	\$55.80
1 - 1/2	40	1.625	41	3	80	3146015030WT	\$59.20
2	50	2.125	54	3	80	3146020030WT	\$66.70
2-1/2	63	2.625	67	3	80	3146025030WT	\$75.00
3	80	3.125	80	3	80	3146030030WT	\$100.80
4	100	4.125	105	3	80	3146040030WT	\$108.30

HOW TO ORDER: Specify Model Number and Pipe Size with OD. EXAMPLE: 2" Copper tube O.D. 2.13 with 3" width. Order 3146 - 2.13 x 3. **Part Number:** 3146020030WT

3151W PATCH CLAMP

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: Molded Waffle NBR design from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40°F to +248°F.

BOLTS & NUTS: Carbon Steel per ASTM A307, with electrogalvanized dichromate finish for added corrosion resistance. Optional Stainless Steel available.

LUGS: Ductile Iron per ASTM A536 with electro-galvanized finish.



Nominal Pipe Size		Pipe OD Range		Bolts	Part Number	Width / List price			
						3in 80MM	6in 150MM	9in 230MM	12in 300MM
1/2	15	0.84	21	PS	3151005 + Width +WA	\$14.60	\$27.00	POA	POA
				SS	3151005 + Width +IW	\$37.00	\$66.60		
3/4	20	1.05	27	PS	3151007 + Width +WA	\$14.90	\$37.50		
				SS	3151007 + Width +IW	\$27.90	\$67.20		
1	25	1.32	34	PS	3151010 + Width +WA	\$16.30	\$39.20		
				SS	3151010 + Width +IW	\$29.70	\$69.10		
1 1/4	32	1.66	42	PS	3151012 + Width +WA	\$16.80	\$31.30		
				SS	3151012 + Width +IW	\$39.30	\$70.80		
1 1/2	40	1.90	40	PS	3151015 + Width +WA	\$18.00	\$33.90		
				SS	3151015 + Width +IW	\$44.20	\$84.90		
2	50	2.00	51	PS	3151020 + Width +WX	\$18.20	\$34.50		
				SS	3151020 + Width +IWX	\$44.70	\$85.40		
		2.38	60	PS	3151020 + Width +WA	\$19.70	\$35.70	\$54.60	\$72.50
				SS	3151020 + Width +IW	\$45.70	\$88.30	\$135.80	\$180.70
2 1/2	65	2.88	73	PS	3151025 + Width +WA	\$24.70	\$49.20	\$73.20	\$99.00
				SS	3151025 + Width +IW	\$51.60	\$101.20	\$152.80	\$204.20
3	80	3.00	76	PS	3151030 + Width +WX	\$24.80	\$51.10	\$83.90	\$109.10
				SS	3151030 + Width +IWX	\$52.20	\$104.90	\$157.70	\$213.10
		3.50	89	PS	3151030 + Width +WA	\$25.80	\$52.10	\$85.70	\$116.60
				SS	3151030 + Width +IW	\$54.10	\$108.60	\$167.10	\$225.20
4	100	4.00	102	PS	3151040 + Width +WX	\$27.90	\$54.00	\$86.30	\$117.90
				SS	3151040 + Width +IWX	\$54.80	\$109.90	\$169.80	\$228.60
		4.50	114	PS	3151040 + Width +WA	\$29.90	\$55.60	\$104.00	\$139.30
				SS	3151040 + Width +IW	\$67.10	\$115.70	\$186.30	\$250.40
5	125	5.00	127	PS	3151050 + Width +WX	\$33.50	\$66.40	\$113.50	\$151.20
				SS	3151050 + Width +IWX	\$68.30	\$121.00	\$193.60	\$257.90
		5.56	141	PS	3151050 + Width +WA	\$33.90	\$67.30	\$113.80	\$152.10
				SS	3151050 + Width +IW	\$70.30	\$122.70	\$195.30	\$258.80

Nominal Pipe Size		Pipe OD Range		Bolts	Part Number	Width / List price			
						3in 80MM	6in 150MM	9in 230MM	12in 300MM
6	150	6.00	152	PS	3151060 + Width +WX	\$35.10	\$67.90	\$114.30	\$152.90
				SS	3151060 + Width +IW	\$74.00	\$124.80	\$199.70	\$264.50
		6.63	168	PS	3151060 + Width +WA	\$35.70	\$70.00	\$117.90	\$158.00
				SS	3151060 + Width +IW	\$76.00	\$126.40	\$201.70	\$270.90
8	200	8.00	203	PS	3151080 + Width +WX	\$39.60	\$77.40	\$124.20	\$182.10
				SS	3151080 + Width +IW	\$77.00	\$133.50	\$208.40	\$295.80
		8.63	219	PS	3151080 + Width +WA	\$41.90	\$81.40	\$128.50	\$199.90
				SS	3151080 + Width +IW	\$79.70	\$137.90	\$212.80	\$313.00
10	250	10.00	254	PS	3151100 + Width +WX	\$76.80	\$157.80	\$260.20	\$339.30
				SS	3151100 + Width +IW	\$121.00	\$215.10	\$332.80	\$453.90
		10.75	273	PS	3151100 + Width +WA	\$77.10	\$159.70	\$260.90	\$341.40
				SS	3151100 + Width +IW	\$131.80	\$216.80	\$336.20	\$457.80
12	300	12.00	305	PS	3151120 + Width +WX	\$87.30	\$170.50	\$274.60	\$354.60
				SS	3151120 + Width +IW	\$141.80	\$228.50	\$349.60	\$470.60
		12.75	324	PS	3151120 + Width +WA	\$88.30	\$171.20	\$274.80	\$356.70
				SS	3151120 + Width +IW	\$143.20	\$232.00	\$353.00	\$474.80

PS = Plated Steel Bolts

SS = Stainless Steel

HOW TO ORDER: Specify Model Number, Pipe Size OD, width, and type of bolt. **EXAMPLE:** 2" steel O.D. 2.38 with 6" width plated steel bolts. Order 3151 - 2.38 X 6PS. **Part Number:** 3151+Pipe size+Width+ Bolt type = 3151020060WA.

3151AS-W

ALL STAINLESS PATCH CLAMP

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: Molded Waffle NBR design from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40°F to +248°F.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

WASHERS: Delrin per ASTM D6778.



Nominal Pipe Size		Pipe OD Range		Part Number	Width / List price		
					4in / 100MM	8in / 200MM	12in / 300MM
Inches	MM	Inches	MM				
1/2	15	0,84	21	3151005+Width+OWS	\$72.90	\$126.90	\$183.80
3/4	20	1,05	27	3151007+Width+OWS			
1	25	1,32	34	3151010+Width+OWS			
1 1/4	32	1,66	42	3151012+Width+OWS	\$77.50	\$136.50	\$204.20
1 1/2	40	1,90	40	3151015+Width+OWS			
2	50	2,00	51	3151020+Width+OWXS			
		2,38	60	3151020+Width+OWS	\$82.20	\$163.60	\$245.00
2 1/2	65	2,88	73	3151025+Width+OWS			
3	80	3,00	76	3151030+Width+OWXS			
		3,50	89	3151030+Width+OWS	\$85.20	\$165.70	\$249.90
4	100	4,00	102	3151040+Width+OWXS			
		4,50	114	3151040+Width+OWS			
5	125	5,00	127	3151050+Width+OWXS	\$94.40	\$175.00	\$261.80
		5,56	141	3151050+Width+OWS			
6	150	6,00	152	3151060+Width+OWXS			
		6,63	168	3151060+Width+OWS	\$101.90	\$188.90	\$284.80
8	200	8,00	203	3151080+Width+OWXS			
		8,63	219	3151080+Width+OWS			
10	250	10,00	254	3151100+Width+OWXS	\$123.00	\$217.80	\$310.50
		10,75	273	3151100+Width+OWS			
12	300	12,00	305	3151120+Width+OWXS			
		12,75	324	3151120+Width+OWS	\$134.10	\$240.10	\$456.80
					\$142.10	\$256.00	\$465.80

HOW TO ORDER: Specify Model Number, Pipe Size with OD, and Width. **EXAMPLE:** 2" steel O.D. 2.38 with 8" Clamp Width. Order 3151AS-W - 2.38 X 8. **Part Number:** 3151020+Width+OWS = 3151020080WS.

3151HD

LARGE DIAMETER HEAVY DUTY PATCH CLAMP



BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: Molded Waffle NBR design from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40° to +248°F.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111. Optional Stainless Steel materials available with fusion bonded anti-galling coated nuts.

LUGS: Ductile Iron per ASTM A536.



Hardware	Bolt type
LAS - Low alloy steel	WX
SS - Stainless steel	IWX

Nominal Pipe Size		Pipe OD Range		Bolts	Part Number	Width / List price			
Inches	MM	Inches	MM			5 In	125 MM	10 In	250MM
10	250	10.00	254	LAS	3151+Pipe size+ Width+Bolt type	\$251.70		\$513.50	
		10.75	273	SS		\$371.80		\$756.00	
12	300	12.00	305	LAS		\$269.30		\$544.90	
		12.75	324	SS		\$399.70		\$799.50	
14	350	14.00	356	LAS		\$281.80		\$563.70	
				SS		\$412.10		\$824.30	
16	400	16.00	406	LAS		\$303.80		\$607.50	
				SS		\$436.90		\$873.80	
18	450	18.00	457	LAS		\$319.40		\$638.80	
				SS		\$452.50		\$904.80	
20	500	20.00	508	LAS		\$338.20		\$676.40	
				SS		\$471.00		\$942.00	
22	550	22.00	559	LAS		\$360.10		\$720.20	
				SS		\$492.70		\$985.30	
24	600	24.00	610	LAS		\$375.70		\$751.50	
				SS		\$511.30		\$1,022.50	
30	750	30.00	762	LAS		\$441.50		\$883.00	
				SS		\$573.30		\$1,146.50	

HOW TO ORDER: Specify Model Number, Pipe Size with OD, width, and type of bolt. **EXAMPLE:** 10" steel O.D 10.75 with 10" wide stainless steel bolts. Order 3151HD-10.75 x 10 SS. **Part Number:** 3151100100IWX.

3152W

SMALL DIAMETER COMPLETE CIRCLE REPAIR CLAMP

BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: Molded Waffle NBR design from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40°F to +248°F.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240, bonded to the gasket.

BOLTS AND NUTS: Carbon Steel per ASTM A307, with electrogalvanized dichromate finish for added corrosion resistance. Optional Stainless Steel available.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.



Pipe OD	Plated Steel = PS	Stainless Steel = SS
IPS	WA	IW
CTS	WT	IT-W

Nominal Pipe Size		Pipe OD Range		Bolts	Part Number	Width / List price			
Inches	MM	Inches	MM			3in 80MM	6in 150MM	9in 230MM	12in 300MM
1/2	15	IPS		PS	3152+Pipe size+Width + Bolt type	\$50.30	\$107.90	POA	POA
		0.84	21	SS		\$76.00	\$133.00		
		CTS		PS		\$50.30	\$107.90		
		0.63	18	SS		\$76.00	\$133.00		
3/4	20	IPS		PS		\$50.90	\$108.50		\$217.10
		1.05	27	SS		\$76.90	\$133.30		\$277.10
		CTS		PS		\$50.90	\$108.50		\$217.10
		0.88	22	SS		\$76.90	\$133.30		\$277.10
1	25	IPS		PS		\$54.30	\$109.40	POA	\$218.70
		1.32	34	SS		\$80.90	\$139.90		\$279.70
		CTS		PS		\$54.30	\$109.40		\$218.70
		1.13	29	SS		\$80.90	\$139.90		\$279.70
1 1/4	32	IPS		PS		\$55.70	\$110.70		\$222.10
		1.66	42	SS		\$81.90	\$141.20		\$283.10
		CTS		PS		\$55.70	\$110.70		\$222.10
		1.38	35	SS		\$81.90	\$141.20		\$283.10
1 1/2	40	IPS		PS		\$55.40	\$111.00		\$225.60
		1.90	48	SS		\$83.90	\$143.10		\$286.30
		CTS		PS		\$55.40	\$111.00		\$225.60
		1.63	41	SS		\$83.90	\$143.10		\$286.30
2	50	IPS		PS		\$62.30	\$115.80		\$231.50
		2.38	60	SS		\$89.90	\$146.50		\$293.10
		CTS		PS		\$62.30	\$115.80		\$231.50
		2.13	54	SS		\$89.90	\$146.50		\$293.10

HOW TO ORDER: Specify Model Number, Pipe Size with O.D. Width, and type of bolt.

EXAMPLE: 2" copper O.D 2.13 with 6" wide plated steel bolts. Order 3152W - 2.13 x 6PS.

Part Number: 3152020060WT.

SMALL DIAMETER COMPLETE CIRCLE REPAIR CLAMP

3153PS-W



BAND: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: Molded Waffle NBR design from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40°F to +248°F.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240 bonded to the gasket.

BOLTS & NUTS: Carbon Steel per ASTM A307, with electro-galvanized dichromate finish for added corrosion resistance.

Optional Stainless Steel available.

LUGS: Ductile Iron per ASTM A536 with electro-galvanized finish.



Pipe OD	Plated Steel = PS	Stainless Steel = SS
IPS	WA	IW
CTS	WT	IWT

Nominal Pipe Size		Pipe OD Range		Bolts	Part Number	Width / List price			
Inches	MM	Inches	MM			3in 80MM	6in 150MM	9in 230MM	12in 300MM
1/2	15	IPS		PS	3153+ Pipe size +Width +Bolt type + (-PS)	\$50.30	\$107.90	POA	POA
		0.84	21	SS		\$76.00	\$133.00		
		CTS		PS		\$50.30	\$107.90		
		0.63	18	SS		\$76.00	\$133.00		
3/4	20	IPS		PS		\$50.90	\$108.50		\$217.10
		1.05	27	SS		\$76.90	\$133.30		\$277.10
		CTS		PS		\$50.90	\$108.50		\$217.10
		0.88	22	SS		\$76.90	\$133.30		\$277.10
1	25	IPS		PS		\$54.30	\$109.40		\$218.70
		1.32	34	SS		\$80.90	\$139.90		\$279.70
		CTS		PS		\$54.30	\$109.40		\$218.70
		1.13	29	SS		\$80.90	\$139.90		\$279.70
1 1/4	32	IPS		PS		\$55.70	\$110.70	POA	\$222.10
		1.66	42	SS		\$81.90	\$141.20		\$283.10
		CTS		PS		\$55.70	\$110.70		\$222.10
		1.38	35	SS		\$81.90	\$141.20		\$283.10
1 1/2	40	IPS		PS		\$55.40	\$111.00		\$225.60
		1.90	48	SS		\$83.90	\$143.10		\$286.30
		CTS		PS		\$55.40	\$111.00		\$225.60
		1.63	41	SS		\$83.90	\$143.10		\$286.30
2	50	IPS		PS		\$62.30	\$115.80		\$231.50
		2.38	60	SS		\$89.90	\$146.50		\$293.10
		CTS		PS		\$62.30	\$115.80		\$231.50
		2.13	54	SS		\$89.90	\$146.50		\$293.10

PS = Plated Steel Bolts SS = Stainless Steel Bolts

HOW TO ORDER: Specify Model Number, Pipe Size with OD, Width and Type of Bolt. **EXAMPLE:** 2" Copper O.D. 2.13 with 6" wide and Plated Steel Bolts. Order 3153PS-W - 2.13 x 6PS. **Part Number:** 3153020060WT-PS .

3202/ 3202LB

SPLIT SLEEVE REPAIR CLAMP

BODY CASTING: Ductile Iron per ASTM A536.

GASKET: SBR per ASTM D2000.

BOLTS & NUTS: Low Alloy Steel per ASTM A325
AND ASTM A563.

FINISH: Epoxy.



MEETS
AWWA
C230

	Nominal Pipe Size		Pipe OD Range		Approx Weight		Part Number	List Price	
	Inches	MM	Inches	MM	lbs.	kgs.			
3202	6	150	6.84 - 6.96	174-177	34	15	320206000000	Standard	\$741.50
							32020600000C	Tapped	\$903.20
					75	34	320206LB0000	Standard	\$1,647.70
							320206LB000C	Tapped	\$1,809.30
3202LB	8	200	8.99-9.11	228-231	44	20	320208000000	Standard	\$916.00
							32020800000C	Tapped	\$1,077.20
					90	41	320208LB0000	Standard	\$2,035.20
							320208LB000C	Tapped	\$2,196.80

The Standard unit is also available with a 3/4" NPT / CC Tapped Outlet and Plug for venting purposes.

HOW TO ORDER: Specify Model Number, and Pipe Size. EXAMPLE: 6" Standard Split Sleeve Repair Clamp. Order 3202-6"
Part Number: 320206000000.

MORE INFORMATION: The Split Sleeve Repair Clamp has been reintroduced (formerly the Clow Model F1202) for those customers who need a rugged heavy duty repair sleeve for Ductile and Cast Iron pipe. This ductile iron bodied fitting is strong enough to realign offset and deflected pipe that has a circumferential break.

BELL JOINT LEAK REPAIR CLAMP 3232

(FOR CAULKED & PUSH-ON CAST IRON AND DUCTILE IRON PIPE JOINTS)



CASTINGS: Ductile Iron per ASTM A536.

GASKET: NBR produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40°F to +248°F.

BOLTS & NUTS: Low Alloy Steel per ASTM A325 and ASTM A563. Optional Stainless Steel available.

FINISH: Epoxy.



MEETS
AWWA
C230



Nominal Pipe Size		Pipe OD Range		Approx Weight		Part Number Alloy Hardware	List Price	Part Number SS Hardware	List Price
Inches	MM	Inches	MM	lbs.	kgs.				
3	80	3.80-3.96	97-101	23	10	3232030000HA	\$294.00	323203SS00HA	\$393.60
4	100	4.80-5.00	122-127	25	11	3232040000HA	\$302.70	323204SS00HA	\$402.80
6	150	6.90-7.10	175-180	32	15	3232060000HA	\$333.40	323206SS00HA	\$432.90
8	200	9.05-9.30	230-236	37	17	3232080000HA	\$460.70	323208SS00HA	\$615.20
10	250	11.10-11.40	282-290	45	20	3232100000HA	\$578.90	323210SS00HA	\$733.30
12	300	13.20-13.50	335-343	69	31	3232120000HA	\$626.10	323212SS00HA	\$766.80
14	350	15.30-15.65	385-393	85	38	3232140000HA	\$814.70	323214SS00HA	\$1,040.70
16	400	17.40-17.80	442-452	103	47	3232160000HA	\$977.70	323216SS00HA	\$1,287.10
18	450	19.50-19.92	492-502	115	52	3232180000HA	\$1,358.60	323218SS00HA	\$1,668.00
20	500	21.60-22.06	549-560	138	63	3232200000HA	\$1,577.70	323220SS00HA	\$1,887.10
24	600	25.80-26.32	655-669	157	71	3232240000HA	\$1,796.90	323224SS00HA	\$2,106.20
30*	750	31.74-32.00	806-813	199	90	3232300000HA	\$3,168.90	323230SS00HA	\$4,155.80
36**	900	37.96-38.70	964-982	300	137	3232360000HA	POA	323236SS00HA	POA
48**	1200	50.50-51.98	1282-1320	CONSULT FACTORY		3232480000HA	POA	323248SS00HA	POA

*Please advise factory at time of ordering when to be used on PVC pipe.

**Fabricated in Carbon Steel

HOW TO ORDER: Specify Model Number, and Pipe Size. EXAMPLE: 24" Bell Joint for DI/CI Pipe with Alloy hardware. Order 3232-24. **Part Number:** 3232240000HA .

3233A/C

COUPLING LEAK REPAIR CLAMP

FOR CLASS 150 PIPE

CASTINGS: Ductile Iron per ASTM A536.

GASKET: NBR produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for oil, mild acids, water, salt media and most aliphatic hydrocarbon fluids with a temperature range of -40°F to +248°F.

BOLTS & NUTS: Low alloy Steel per ASTM A325 and ASTM A563.

FINISH: Epoxy.

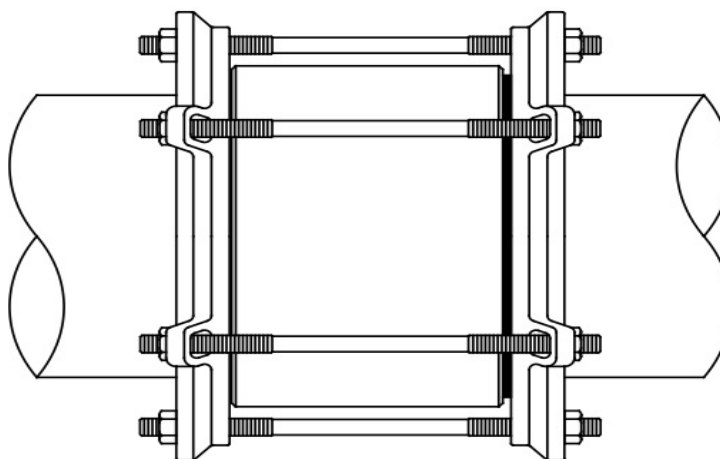


Nominal Pipe Size		Pipe OD Range		Approx Weight		Part Number	Price A/C Coupling	Gasket part number	Price Additional Gasket
Inches	MM	Inches	MM	lbs.	kgs.				
4	100	5.07-5.20	129-132	25	11	3233040000HA	\$488.80	V3233041	\$71.30
6	150	7.17-7.35	182-187	32	15	3233060000HA	\$561.70	V3233061	\$88.70
8	200	9.37-9.50	238-241	37	17	3233080000HA	\$729.70	V3233081	\$110.70

NOTE: This repair clamp is furnished with one gasket. If both ends of the A/C Coupling are leaking order one additional gasket.

HOW TO ORDER: Specify Model Number, and Pipe Size.

EXAMPLE: 8" 3233 A/C Coupling Leak Repair Clamp with Alloy hardware. Order 3233-8. **Part Number:** 3233080000HA .





EMERGENCY REPAIR CLAMP KIT

The PowerSeal Emergency Repair Clamp Kit (POWER BOX) provides a proactive approach to pipe repair. The PERCK covers a wide range of pipe diameters from 4.50" to 33.74" O.D., and is ready to repair your water utility emergency situation regardless of pipe size. The prepared stainless-steel clamp panels are arranged in a rugged case that can be stored in the shop or truck. A leak can happen at any time, we can help you Seal it.



Outlet Size	Thread Type	End Code
3/4*	CC (AWWA)	B
1*		D
1 1/4*		F
1 1/2*		H
2*		J
3/4*	IP(NPT)	C
1*		E
1 1/4*		G
1 1/2*		I
2*		K

*Contact factory for availability

Description	Special Range	Part Number	List Price
3122AS 4X All Stainless Double Panel Repair Clamp	4.44 - 5.24"	312204X120CA	POA
3122AS 6X All Stainless Double Panel Repair Clamp	6.62 - 7.42"	312206X120CA	
3121AS 3X All Stainless Single Panel Repair Clamp	3.80 - 4-07"	312103X120CA	
3121AS 4X All Stainless Single Panel Repair Clamp	4.59 - 5.39"	312104X120CA	
3121AS 4X All Stainless Single Panel Repair Clamp	5.37 - 5.87"	312104X120CA	
3121AS 6X All Stainless Single Panel Repair Clamp	6.59 - 6.99"	312106X120CA	
3121AS 6X All Stainless Single Panel Repair Clamp	7.77 - 8.17"	312106X120CA	
36" Pipe O.D. Tape Measure Inches / O.D.			
Lifter Bar 5/8 x 12"			
5/8" Derlin Washer			
5/8" Heavy Hex nut - 304SS Xylan Coated			

FEATURES

- Use different combinations of panels to repair leaking pipes.
- Type 304 Stainless-Steel panels with SBR gaskets
- Stainless Steel panels are fully passivated for corrosion resistance.
- Combination chart easily identifies which panels to use in order to meet your O.D. requirements.
- Durable, lightweight, weather resistant storage box suitable for the use in the field.
- Replacement panels available from any authorized PowerSeal distributor.





SADDLES



WWW.POWERSEAL.COM

SADDLES



3401

1.25" – 12" diameter bronze saddle to fit IPS/SCH40 OD PVC pipe.



3402

2, 2 1/2 & 3" diameter bronze saddle to fit Copper pipe OD.



3403

4" – 12" diameter bronze saddle to fit C900 PVC, DR25 and DR18 pipe.



3407

4" – 16" diameter bronze saddle to fit A/C, CI, & C900 PVC.



3409

4"–16" diameter bronze saddle with stainless steel strapS to fit A/C, CI, C900 & C909 PVC.



3411AS

2" – 8" diameter fabricated all stainless steel saddle.



3412AS

3" – 12" diameter fabricated all stainless steel saddle.



3414AS

4" – 12" diameter fabricated all stainless steel wide range saddle.



3416AS

14" and larger diameter fabricated all stainless steel wide range saddle for larger diameter pipe.



3421AS

4" – 12" diameter fabricated single strap all stainless steel saddle.



3422AS

4" – 24" diameter fabricated 2 strap all stainless steel wide range saddle.



3415AS

3" – 14" diameter CASTSS body stainless steel saddle with single stainless steel strap.



3417AS

4" – 24" diameter CASTSS body all stainless steel saddle with stainless steel straps.



3417AS - SW

4" – 24" diameter CASTSS body all stainless steel saddle, with a single wide strap.



SADDLES



3450AS
Flare/Pack Joint
/PowerJoint

PowerJoint, Pack Joint and Flare are available in 3/4", 1", 1-1/2" & 2", for use on PVC, Ductile/Cast Iron and AC pipe.



3411DI

1" – 14" diameter ductile iron body saddle with a single bale.



3413DI

2" – 24" diameter ductile iron body saddle with bales.



3417DI

2" – 24" diameter ductile iron body saddle with stainless steel straps.



3417DI-SW

2" – 24" diameter ductile iron body saddle with stainless steel straps, with a single wide strap.



3415DI

1" – 14" diameter ductile iron body saddle with single stainless steel strap.



SEWER SADDLE

4" – 6" outlet sizes ductile iron saddle with adjustable stainless steel strap for sewer.

OUTLET CODE										
Outlet	3/4		1		1 1/4		1 1/2		2	
Outlet size	075		100		125		150		200	
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

BRONZE SADDLE FOR IPS PVC 3401

BODY CASTINGS: Waterworks Bronze (85-5-5-5) per ASTM B584 and AWWA C800.

FASTENERS: Silicon Bronze per ASTM B98.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Made in U.S.A

MEETS
AWWA
C800

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
1 1/4*	32	1.66	42	3401012+Outlet size+H+Code	\$67.60	N/A
1 1/2*	40	1.90	48	3401015+Outlet size+H+Code	\$67.60	N/A
2	50	2.38	60	3401020+Outlet size+H+Code	\$67.60	N/A
2 1/2	65	2.88	73	3401025+Outlet size+H+Code	\$76.50	N/A
3	80	3.50	84	3401030+Outlet size+H+Code	\$85.40	\$170.10
3 1/2	90	4.00	101	3401035+Outlet size+H+Code	\$90.60	N/A
4	100	4.50	114	3401040+Outlet size+H+Code	\$95.70	\$213.00
5	125	5.56	141	3401050+Outlet size+H+Code	\$108.00	N/A
6	150	6.63	168	3401060+Outlet size+H+Code	\$118.40	\$223.20
8	200	8.63	219	3401070+Outlet size+H+Code	\$162.50	\$230.10
10	250	10.75	273	3401100+Outlet size+H+Code	\$230.00	\$447.40
12	300	12.75	324	3401120+Outlet size+H+Code	\$289.50	\$481.90

*Not available with 1"tap.

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration.

EXAMPLE: 4" PVC O.D. 4.50 with 3/4 CC outlet. Order 3401 - 4 x 3/4 CC.

Part Number: 3401040075HB

BRONZE SADDLE FOR COPPER TUBING 3402

BODY CASTINGS: Waterworks Bronze (85-5-5-5) per ASTM B584 and AWWA C800.

FASTENERS: Silicon Bronze per ASTM B98.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Made in U.S.A

MEETS
AWWA
C800

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT
2	50	2.13	60	3402020+Outlet size+H+Code	\$70.40
2 1/2	65	2.63	73	3402025+Outlet size+H+Code	\$77.30
3	80	3.13	84	3402030+Outlet size+H+Code	\$81.70

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 3" CTS OD with 3/4 CC Outlet. Order 3402 - 3 x 3/4 CC. **Part Number:** 3402030075HB.

3403

BRONZE SADDLE FOR C900

*DR25 (CL 100) and DR18 (CL 150)

BODY CASTINGS: Waterworks Bronze (85-5-5-5) per ASTM B584 and AWWA C800.

FASTENERS: Silicon Bronze per ASTM B98.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



MEETS
AWWA
C800

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
4	100	4.80	122	3403040+ Outlet size+H+Code	\$117.40	\$212.40
6	150	6.90	175	3403060+Outlet size+H+Code	\$142.30	\$285.40
8	200	9.05	230	3403070+Outlet size+H+Code	\$180.20	\$333.30
10	250	11.10	282	3403100+Outlet size+H+Code	\$259.30	\$519.50
12	300	13.20	335	3403120+Outlet size+H+Code	\$323.20	\$592.30

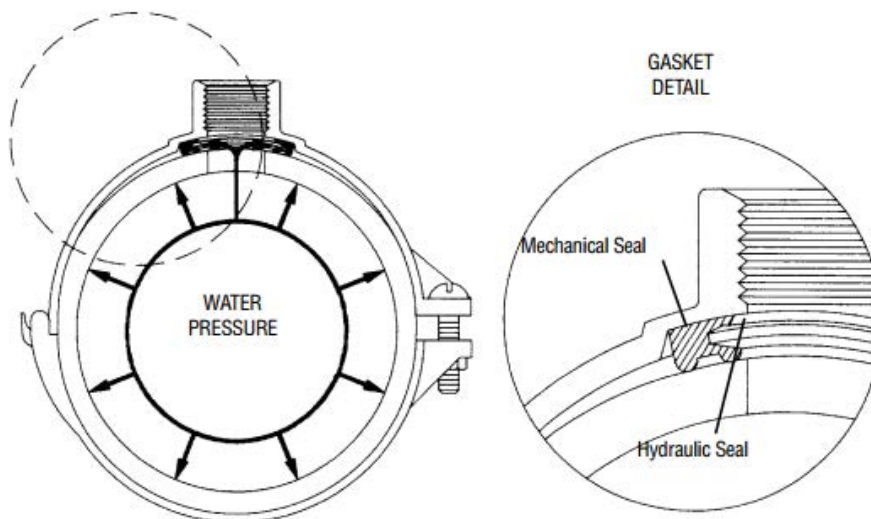
HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 4" C900 O.D. 4.80 with 3/4 CC outlet. Order 3403 - 4 x 3/4 CC.

Part Number: 3403040075HB .

OUTLET CODE										
Outlet	3/4		1		1 1/4		1 1/2		2	
Outlet size	075		100		125		150		200	
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

PowerSeal's patented dual o-ring TwinSeal® gasket incorporates both hydrostatic and mechanical forces to affect a positive seal on all pipe surfaces. As the distribution system's pressure increases, the tightness of the seal is equally increased. This unique design compensates for expansion and contraction due to pressure or temperature variances in water mains and service lines.



3407

BRONZE SADDLE FOR ASBESTOS-CEMENT, CAST IRON AND C900 PVC

BODY CASTINGS: Waterworks Bronze (85-5-5-5) per ASTM B584 and AWWA C800.

FASTENERS: Silicon Bronze per ASTM B98.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Made in U.S.A.

MEETS
AWWA
C800

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
4	100	4.80 - 5.45	122-140	3407040+Outlet size+H+Code	\$375.30	\$410.40
6	150	6.85 - 7.45	175-190	3407060+Outlet size+H+Code	\$436.40	\$482.20
8	200	9.05-9.65	230-245	3407070+Outlet size+H+Code	\$457.10	\$540.00
10	250	11.05-12.05	282-307	3407100+Outlet size+H+Code	\$588.00	\$691.10
12	300	13.20-14.20	335-360	3407120+Outlet size+H+Code	\$687.30	\$788.00
16	400	17.40-18.40	442-467	3407160+Outlet size+H+Code	\$1,680.00	\$1,961.30

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 4" C900 O.D. 4.80 with 3/4 CC outlet. Order 3407 - 4 x 3/4 CC. **Part Number:** 3407040075HB.



BRONZE SADDLE WITH STAINLESS STEEL STRAPS FOR ASBESTOS CEMENT, CAST IRON AND C900 PVC

3409

BODY CASTING: Waterworks Bronze (85-5-5-5) per ASTM B584 and AWWA C800.

STRAPS: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Made in U.S.A.

MEETS
AWWA
C800

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
4	100	4.80-5.45	122-140	3409040+Outlet size+H+Code	\$281.50	\$307.80
6	150	6.85-7.45	175-190	3409060+Outlet size+H+Code	\$327.30	\$361.70
8	200	9.05-9.65	230-245	3409070+Outlet size+H+Code	\$411.40	\$441.80
10	250	11.05-12.05	282-307	3409100+Outlet size+H+Code	\$481.10	\$545.60
12	300	13.20-14.20	335-360	3409120+Outlet size+H+Code	\$542.60	\$622.10
16	400	17.40-18.40	442-467	3409160+Outlet size+H+Code	\$831.80	\$882.60

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 4" C900 O.D. 4.80 with 3/4 CC outlet. Order 3409 - 4 x 3/4 CC. **Part Number:** 3409040075HB.

3411AS

ALL STAINLESS SADDLE - SINGLE STUD BOLT DESIGN

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Pipe OD Range		Width		Part number	Outlet Size / List price
Inches	MM	Inches	MM	In	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT
3	80	3.48-3.52	88-90	4	100	3411030+Outlet size+T+Code	\$154.90
3 1/2	90	3.98-4.02	101-102			3411035+Outlet size+T+Code	
4	100	4.50-4.80	114-122			3411040+Outlet size+T+Code	\$181.30
5	125	5.54-5.84	141-148			3411050+Outlet size+T+Code	\$183.60
6	150	6.63-6.90	168-175			3411060+Outlet size+T+Code	\$249.70
8	200	8.63-9.05	219-230			3411080+Outlet size+T+Code	\$252.90

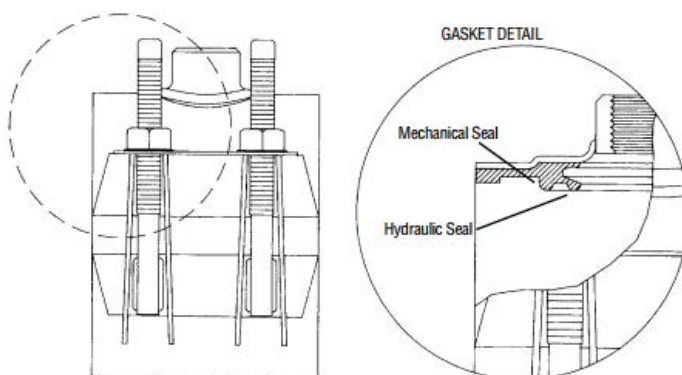
Custom sizes and ranges available

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 4" C900 O.D. 4.80 with 3/4 CC outlet. Order 3411AS - 4 x 3/4 CC.

Part Number: 3411040075TB .

OUTLET CODE									
Outlet	3/4		1		1 1/4		1 1/2		2
Outlet size	075		100		125		150		200
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT CC
Outlet code	C	B	E	D	G	F	I	H	K J

IP = NPT CC=AWWA



ALL STAINLESS SERVICE SADDLE TWINSEAL GASKET

The patented dual o-ring TwinSeal® gasket incorporates both hydrostatic and mechanical forces to affect a positive seal on all pipe surfaces. As the distribution system's pressure increases, the tightness of the seal is equally increased. This unique design compensates for expansion and contraction due to pressure or temperature variances in water mains and service lines. The large area of gasket in contact with the pipe also serves to prevent saddle rotation while in service and the tapered ends provide a contoured fit to the pipe.

ALL STAINLESS SADDLE - DOUBLE STUD BOLT DESIGN 3412AS



PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.
BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
					6" Wide / 150 mm	8" Wide / 200 mm
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
3	80	3.48-3.52	88-90	3412030+Outlet size+T+Code	\$160.70	\$347.90
3 1/2	90	3.98-4.02	101-102	3412035+Outlet size+T+Code	\$160.70	\$347.90
4	100	4.50-4.80	114-122	3412040+Outlet size+T+Code	\$184.20	\$356.80
5	125	5.54-5.84	141-148	3412050+Outlet size+T+Code	\$188.30	\$360.30
6	150	6.63-6.90	168-175	3412060+Outlet size+T+Code	\$263.50	\$370.80
8	200	8.63-9.05	219-230	3412080+Outlet size+T+Code	\$267.40	\$386.50
10	250	10.75-11.10	273-282	3412100+Outlet size+T+Code	\$325.70	\$407.60
12	300	12.75-13.20	324-335	3412120+Outlet size+T+Code	\$333.20	\$430.40



MEETS
AWWA
C800



HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 4" C900 O.D. 4.80 with 3/4 CC outlet. Order 3412AS - 4 x 3/4 CC. **Part Number:** 3412040075TB.

SINGLE STRAP ALL STAINLESS SADDLE "WIDE RANGE" 3421AS



PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.
BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -25°F to +248°F.

BODY WIDTH: 4" . **STRAP WIDTH:** 2".

Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price
Inches	MM		Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT
4	100	A	4.35-5.65	111-144	342104A+Outlet size+T+Code	\$174.30
5	125	A	5.40-6.40	137-163	342105A+Outlet size+T+Code	\$177.90
6	150	A	6.45-7.75	164-197	342106A+Outlet size+T+Code	\$183.00
8	200	A	8.50-9.80	216-249	342108A+Outlet size+T+Code	\$187.00
10	250	A	10.25-11.55	260-293	342110A+Outlet size+T+Code	\$224.10
		B	10.95-12.35	278-314	342110B+Outlet size+T+Code	\$224.10
12	300	A	12.30-13.60	312-345	342112A+Outlet size+T+Code	\$230.40
		B	13.14-14.44	334-367	342112B+Outlet size+T+Code	\$230.40



MEETS
AWWA
C800



HOW TO ORDER: Choose nominal pipe sizes x outlet size and thread configuration.

EXAMPLE: 12" ductile iron pipe with a 1" CC tap. Order 3421AS-12A x 1CC. **Part Number:** 342112A100TD.

NOTE: Other ranges, tap sizes available upon request.

3416AS

ALL STAINLESS SADDLE LARGER DIAMETERS

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE:

Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price		
						8" Wide / 200 mm		12" Wide / 300 mm
Inches	MM		Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT	2 1/2 FIP - 3 FIP
14	350	A	14.00-15.20	356-386	341614A+Outlet size+T+Code	\$578.70	\$665.60	\$1,328.40
		B	15.30-16.50	389-419	341614B+Outlet size+T+Code			
16	400	A	16.60-17.80	422-452	341616A+Outlet size+T+Code	\$578.70	\$665.60	\$1,328.40
18	450	A	18.00-19.20	457-488	341618A+Outlet size+T+Code	\$673.30	\$812.10	\$1,433.00
		B	19.50-20.70	495-526	341618B+Outlet size+T+Code			
20	500	A	21.60-22.80	549-579	341620A+Outlet size+T+Code	\$755.80	\$1,008.00	\$1,670.90
24	600	A	24.00-25.20	610-640	341624A+Outlet size+T+Code	\$798.10	\$1,049.90	\$1,683.40
		B	25.80-27.00	655-686	341624B+Outlet size+T+Code			
30	750	A	30.00-31.20	762-792	341630A+Outlet size+T+Code	\$1,657.70	\$2,129.60	\$3,043.90
		B	32.00-33.20	813-843	341630B+Outlet size+T+Code			
36	900	A	36.00-37.20	914-945	341636A+Outlet size+T+Code	\$1,841.60	\$2,367.00	\$3,155.30
		B	37.90-39.10	963-993	341636B+Outlet size+T+Code			
		C	39.10-40.30	993-1024	341636C+Outlet size+T+Code			
42	1100	A	42.00-43.20	1067-1097	341642A+Outlet size+T+Code	\$2,171.90	\$2,760.20	\$3,681.00
		B	44.20-45.40	1123-1153	341642B+Outlet size+T+Code			
		C	45.50-46.70	1156-1186	341642C+Outlet size+T+Code			
48	1200	A	48.00-49.20	1219-1250	341648A+Outlet size+T+Code	\$2,452.60	\$3,155.30	\$4,257.90
		B	50.50-51.70	1283-1313	341648B+Outlet size+T+Code			
		C	51.80-53.00	1316-1346	341648C+Outlet size+T+Code			
		D	53.10-54.30	1349-1479	341648D+Outlet size+T+Code			

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 16" C900 O.D. 17.40 with 3/4 CC outlet. Order 3416AS - 16A x 3/4 CC. **Part Number:** 341616A075TB. Sizes above 30" are supplied with a drop in bolt design.

NOTE: Other ranges, tap sizes available upon request.

OUTLET CODE												
Outlet	3/4	1	1 1/4	1 1/2	2	2 1/2	3					
Outlet size	075	100	125	150	200	250	300					
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	NPT
Outlet code	C	B	E	D	G	F	I	H	K	J	N	P

IP = NPT CC=AWWA

3414AS

ALL STAINLESS WIDE RANGE SADDLE



PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex. nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Made in U.S.A.



Nominal Pipe Size		Pipe OD Range		Width		Part number	Outlet Size / List price	
Inches	MM	Inches	MM	In	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
4	100	4.50-5.10	114-130	8	200	3414040+Outlet size+T+Code	\$209.10	\$401.20
5	125	5.54-6.14	141-156			3414050+Outlet size+T+Code	\$281.80	\$405.10
6	150	6.63-7.23	168-184			3414060+Outlet size+T+Code	\$296.30	\$416.80
8	200	8.63-9.83	219-250			3414080+Outlet size+T+Code	\$300.50	\$434.70
10	250	10.75-11.95	273-304			3414100+Outlet size+T+Code	\$366.30	\$458.20
12	300	12.75-13.95	324-354			3414120+Outlet size+T+Code	\$374.60	\$484.00

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 4" C900 O.D. 4.80 with 3/4 CC outlet order 3414AS - 4 x 3/4 CC. **Part Number:** 3414040075TB .

OUTLET CODE										
Outlet	3/4	1	1 1/4	1 1/2	2					
Outlet size	075	100	125	150	200					
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

3422AS

DOUBLE STRAP ALL STAINLESS SADDLE "WIDE RANGER"

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Pipe OD Range		Letter	Part number	Outlet Size / List price	
Inches	MM	Inches	MM			3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
4	100	4.35-5.65	111-144	A	342204A+Outlet size+T+Code	\$279.90	\$310.50
5	125	5.40-6.40	137-163	A	342205A+Outlet size+T+Code	\$281.30	\$314.80
6	150	6.45-7.75	164-197	A	342206A+Outlet size+T+Code	\$290.10	\$322.40
8	200	8.50-9.80	216-249	A	342208A+Outlet size+T+Code	\$296.30	\$329.10
10	250	10.25-11.55	260-293	A	342210A+Outlet size+T+Code	\$310.80	\$345.30
		10.95-12.35	278-314	B	342210B+Outlet size+T+Code	\$310.80	\$345.30
12	300	12.30-13.60	312-345	A	342212A+Outlet size+T+Code	\$319.10	\$354.40
		13.14-14.44	334-367	B	342212B+Outlet size+T+Code	\$319.10	\$354.40
14	350	14.00-15.30	356-389	A	342216A+Outlet size+T+Code	\$358.80	\$398.70
		15.40-16.70	391-424	B	342216B+Outlet size+T+Code	\$358.80	\$398.70
16	400	16.20-17.50	412-445	A	342216A+Outlet size+T+Code	\$365.90	\$406.50
		17.90-19.20	455-488	B	342216B+Outlet size+T+Code	\$365.90	\$406.50
18	450	19.20-20.40	488-518	A	342218A+Outlet size+T+Code	\$393.50	\$437.70
20	500	21.50-22.80	546-579	A	342220A+Outlet size+T+Code	\$401.50	\$446.10
24	600	25.70-27.00	653-686	A	342224A+Outlet size+T+Code	\$426.40	\$473.70

HOW TO ORDER: Choose nominal pipe sizes x outlet size and thread configuration. EXAMPLE: 12" ductile iron pipe with a 1" CC tap. Order 3422AS-12A x 1CC. **Part Number:** 342212A100TD

NOTE: Other ranges, tap sizes available upon request.

OUTLET CODE									
Outlet	3/4		1		1 1/4		1 1/2		2
Outlet size	075		100		125		150		200
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT CC
Outlet code	C	B	E	D	G	F	I	H	K J

IP = NPT CC=AWWA



3415AS

STAINLESS SADDLE SINGLE STRAP

(CAST ALL STAINLESS STEEL BODY)

BODY CASTING: Stainless steel 18-8 ASTM A743

STRAP: Type 304 (18-8) Stainless steel per ASTM A240

STUD BOLTS: Type 304 (18-8) Stainless steel per ASTM A193

NUTS: Type 304 (18-8) Stainless steel per ASTM A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKET: NBR per ASTM D2000; Patented Twinseal dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		1/2 CC - 1/2 NPT 3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
3-4	80-100	3.74-4.55	95-116	3415034+Outlet size+H+Code+AS	\$303.70	N/A
4-5	100-125	4.74-5.63	120-143	3415040+Outlet size+H+Code+AS	\$305.30	\$491.00
5-6	125-150	5.94-6.70	151-170	3415056+Outlet size+H+Code+AS	\$311.80	\$525.30
6	150	6.84-7.60	174-193	3415060+Outlet size+H+Code+AS	\$313.50	\$536.80
6C	150	6.63-6.90	168-175	341506C+Outlet size+H+Code+AS	\$339.50	\$536.80
6-8	150-200	7.69-8.72	195-222	3415068+Outlet size+H+Code+AS	\$340.80	\$540.50
8A	200	8.63-9.05	219-229	341508A+Outlet size+H+Code+AS	\$344.30	\$554.20
8-10	200-250	8.54-10.10	217-257	3415080+Outlet size+H+Code+AS	\$353.20	\$578.50
10-12	250-300	10.64-12.12	270-308	3415100+Outlet size+H+Code+AS	\$391.20	\$608.70
12-14	300-350	12.62-14.32	321-364	3415120+Outlet size+H+Code+AS	\$421.50	\$656.20

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration.

EXAMPLE: 4" Ductile Iron O.D. 4.80 with 3/4 CC outlet. Order 3415AS 4-5 x 3/4 CC.

Part Number: 3415040075HB-AS

NOTE: Please advise when saddles are being ordered for use on C900 pipe.

MANUFACTURER SUGGESTION: For PVC pipe applications, order saddle which has OD of pipe at the top of range.

OUTLET CODE										
Outlet	3/4		1		1 1/4		1 1/2		2	
Outlet size	075		100		125		150		200	
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

3450AS

ALL STAINLESS STEEL SADDLECORP

PowerJoint, Pack Joint and Flare are available in 3/4", 1", 1-1/2" & 2".

CTS - PACK JOINT



IPS - PACK JOINT



FLARE



CTS - POWERJOINT



**MODEL 3450AS -
PACK JOINT**



**MODEL 3450AS -
POWERJOINT**

**MODEL 3450AS -
FLARE**

- Available for CTS Pack joint and PowerJoint (compare to Quick Joint), IPS Pack Joint and FLARE.
- Ball valve design for maximum pressure capability.
- Patented TwinSeal gasket design.
- UL tested.
- Certified by IAPMO R&T to NSF/ANSI 61 for materials safety only, and to NSF/ANSI 372 for low lead compliance.
- Eliminates vulnerable epoxy coatings.
- For use on PVC, Ductile/Cast iron and AC pipe.
- One piece casting design combines corp stop and saddle
- Reduces inventory and purchasing consolidation.
- Limits potential threading issues in the field.
- Meets or exceeds the requirements of AWWA C800.



3450AS

STAINLESS STEEL SADDLECORP

BODY CASTINGS: Stainless Steel 18-8 ASTM A743.

STRAPS: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193. Never Gall coating available for extra anti-seize protection.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194. NOTE: Hex nuts are furnished with

fusion bonded coating to prevent seizing and/or galling.

GASKETS: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Letter	Pipe OD Range		Adapter	Part number	Outlet Size / List price			
In	MM		Inches	MM			3/4	1	1 1/2	2
3	80	B	3.45-4.05	88-103	CTS/POWERJOINT CTS/PACK JOINT IPS/PACK JOINT FLARE W/FLARE	345003B+Outlet size+AS+(-Adapter)	\$431.00	\$510.90	N/A	N/A
4	100	A	4.00-4.50	102-114		345004A+Outlet size+AS+(-Adapter)	\$495.40	\$587.20	N/A	N/A
		B	4.74-5.63	120-143		345004B+Outlet size+AS+(-Adapter)	\$495.40	\$587.20	\$974.70	\$1,218.30
6	150	A	6.00-6.63	152-168		345006A+Outlet size+AS+(-Adapter)	\$557.00	\$648.30	\$1,036.60	\$1,306.90
		B	6.84-7.64	174-194		345006B+Outlet size+AS+(-Adapter)	\$557.00	\$648.30	\$1,036.60	\$1,306.90
		C	6.63-6.90	168-175		345006C+Outlet size+AS+(-Adapter)	\$557.00	\$648.30	\$1,036.60	\$1,306.90
8	200	A	8.00-8.63	203-219		345008A+Outlet size+AS+(-Adapter)	\$653.20	\$744.60	\$1,074.80	\$1,369.20
		B	8.54-10.10	216-257		345008B+Outlet size+AS+(-Adapter)	\$653.20	\$744.60	\$1,074.80	\$1,369.20
		C	8.63-9.05	219-229		345008C+Outlet size+AS+(-Adapter)	\$653.20	\$744.60	\$1,074.80	\$1,369.20
10	250	A	10.00-11.10	254-282		345010A+Outlet size+AS+(-Adapter)	\$772.90	\$864.10	\$1,255.30	\$1,519.10
		B	10.64-12.12	270-308		345010B+Outlet size+AS+(-Adapter)	\$772.90	\$864.10	\$1,255.30	\$1,519.10
12	300	A	12.00-13.20	305-335		345012A+Outlet size+AS+(-Adapter)	\$842.20	\$933.40	\$1,351.90	\$1,616.10
		B	12.62-14.32	321-364		345012B+Outlet size+AS+(-Adapter)	\$842.20	\$933.40	\$1,351.90	\$1,616.10

HOW TO ORDER: Choose nominal pipe size x outlet type conformation. EXAMPLE: 4" PVC O.D. 4.50 with 3/4 CTS/PACK JOINT. Order 3450AS - 4 x 3/4 CTS/PACK JOINT. **Part Number:** 345004A075AS-CP. **NOTE:** PowerJoint adapter equivalent to Quick Joint compression adapter

ADAPTER CODE		
	CTS	IPS
PowerJoint	-CQ	N/A
Pack Joint	-CP	-IP
Flare	-FLR	

3417AS/ 3417AS-W

STAINLESS SADDLE WITH STRAPS/ SINGLE WIDE STRAP

(CAST ALL STAINLESS STEEL BODY)

BODY CASTING: Stainless Steel 18-8 ASTM A743.

STRAPS: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKETS: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM		Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
4	100	A	4.00-4.50	102-114	341704A+Outlet size+H+Code+AS	\$365.80	\$561.50
		B	4.74-5.63	120-143	341704B+Outlet size+H+Code+AS	\$365.80	N/A
		C	4.74-5.14	120-131	341704C+Outlet size+H+Code+AS	N/A	\$561.50
6	150	A	6.00-6.63	152-168	341706A+Outlet size+H+Code+AS	\$394.70	\$603.80
		B	6.84-7.64	174-194	341706B+Outlet size+H+Code+AS		
		C	6.63-6.90	168-175	341706C+Outlet size+H+Code+AS		
8	200	A	8.00-8.63	203-219	341708A+Outlet size+H+Code+AS	\$506.50	\$772.20
		B	8.54-10.10	216-257	341708B+Outlet size+H+Code+AS		
		C	8.63-9.05	219-229	341708C+Outlet size+H+Code+AS		
10	250	A	10.00-11.10	254-282	341710A+Outlet size+H+Code+AS	\$558.80	\$822.50
		B	10.64-12.12	270-308	341710B+Outlet size+H+Code+AS		
12	300	A	12.00-13.20	305-335	341712A+Outlet size+H+Code+AS	\$602.20	\$886.70
		B	12.62-14.32	321-364	341712B+Outlet size+H+Code+AS		
12-14	300-350	A	14.73-15.65	374-398	34171214+Outlet size+H+Code+AS	\$740.20	\$947.30
16-18	400-450	A	17.40-18.88	442-480	34171618+Outlet size+H+Code+AS	\$1,017.20	\$1,053.00
18	450	A	19.50	495	341718A+Outlet size+H+Code+AS	\$1,068.80	\$1,087.30
20	500	A	21.60	549	341720A+Outlet size+H+Code+AS	\$1,079.00	\$1,119.30
24	600	A	25.80	655	341724A+Outlet size+H+Code+AS	\$1,131.50	\$1,172.00

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. EXAMPLE: 4" Ductile Iron O.D. 4.80 with 3/4 CC outlet. Order 3417AS - 4B x 3/4 CC. **Part Number:** 341704B075HB-AS – To order with a single wide strap add SW to the end of the part number. For example: 341704B075HB-ASSW.

NOTE: Please advise when saddles are being ordered for use on C900 pipe.



3411DI

DUCTILE IRON SADDLE WITH BALE

BODY CASTING: Ductile Iron per ASTM A536.

BALE: Carbon Steel per AISI 1080, with electro-galvanized di-chromate finish for added corrosion resistance.

NUTS: Carbon Steel per ASTM A563, with electrogalvanized di-chromate finish for added corrosion resistance.

GASKET: NBR per ASTM D2000 with unique dual O-Ring design permanently bonded in recessed casting, with a temperature range of -40°F to +248°F.

FINISH: Epoxy.



Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
1	25	1.31-1.39	33-35	341101+Outlet size+H+Code+(-DI)	\$46.00	N/A
1 1/4 - 1 1/2	32	1.61-1.92	41-49	3411015+Outlet size+H+Code+(-DI)	\$49.00	N/A
2A	50	2.38	61	341102A+Outlet size+H+Code+(-DI)	\$52.70	N/A
2B	50	2.35-2.56	60-65	341102B+Outlet size+H+Code+(-DI)	\$52.70	\$69.10*
2 1/4 - 2 1/2	55-65	2.44-2.91	62-74	3411025+Outlet size+H+Code+(-DI)	\$56.00	\$70.70**
3	80	2.97-3.54	75-90	341103+Outlet size+H+Code+(-DI)	\$58.90	\$75.40**
3-4	80-100	3.74-4.55	96-116	3411034+Outlet size+H+Code+(-DI)	\$67.00	\$90.70
4-5	100-125	4.74-5.63	120-143	3411045+Outlet size+H+Code+(-DI)	\$69.70	\$94.90
5-6	125-150	5.94-6.70	151-170	3411056+Outlet size+H+Code+(-DI)	\$75.70	\$105.50
6	150	6.84-7.60	174-193	341106+Outlet size+H+Code+(-DI)	\$80.90	\$113.90
6-8	150-200	7.69-8.72	195-222	3411068+Outlet size+H+Code+(-DI)	\$91.60	\$124.50
8-10	200-250	8.54-10.10	217-257	3411080+Outlet size+H+Code+(-DI)	\$97.10	\$143.80
10-12	250-300	10.64-12.12	270-308	3411100+Outlet size+H+Code+(-DI)	\$113.10	\$173.70
12-14	300-350	12.62-14.32	321-364	3411120+Outlet size+H+Code+(-DI)	\$121.60	\$176.90

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 4" Ductile Iron O.D. 4.80 with 3/4 CC outlet. Order 3411DI 4-5 x 3/4 CC Single Bale. **Part NumHber:** 3411040075HB-DI **NOTE:** Please advise when saddles are being ordered for use on C900 pipe.

*Available in 1.25" CC/NPT + 1.5" NPT.

**Available in 1.25" CC/NPT, 1.5" CC/NPT.

OUTLET CODE										
Outlet	3/4		1		1 1/4		1 1/2		2	
Outlet size	075		100		125		150		200	
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

3413DI

DUCTILE IRON SADDLE WITH BALES

BODY CASTING: Ductile Iron per ASTM A536.

BALES: Carbon Steel per AISI 1080, with electro-galvanized di-chromate finish for added corrosion resistance.

NUTS: Carbon Steel per ASTM A563, with electro-galvanized di-chromate finish for added corrosion resistance.

GASKET: NBR per ASTM D2000 with Unique dual O-Ring design permanently bonded in recessed casting, with a temperature range of -40°F to +248°F.

FINISH: Epoxy.



Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM		Inches	MM		1/2 NPT 3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
2*	50	A	2.38-2.50	61-64	341302A+ Outlet size+H+Code+(-D)	\$72.00	\$75.50
3**	80	A	3.50	89	341303A+Outlet size+H+Code+(-D)	\$85.60	\$111.00
		B	3.45-4.05	88-103	341303B+Outlet size+H+Code+(-D)	\$89.50	\$114.80
4	100	A	4.00-4.50	102-114	341304A+Outlet size+H+Code+(-D)	\$100.90	\$122.30
		B	4.74-5.63	120-143	341304B+Outlet size+H+Code+(-D)		N/A
		C	4.74-5.14	120-131	341304C+Outlet size+H+Code+(-D)	N/A	\$122.30
6	150	A	6.00-6.63	152-168	341306A+Outlet size+H+Code+(-D)	\$115.10	\$141.50
		B	6.84-7.64	174-194	341306B+Outlet size+H+Code+(-D)		
		C	6.63-6.90	168-175	341306C+Outlet size+H+Code+(-D)		
8	200	A	8.00-8.63	203-219	341308A+Outlet size+H+Code+(-D)	\$135.80	\$169.40
		B	8.54-10.10	216-257	341308B+Outlet size+H+Code+(-D)		
		C	8.63-9.05	219-229	341308C+Outlet size+H+Code+(-D)		
10	250	A	10.00-11.10	254-282	341310A+Outlet size+H+Code+(-D)	\$175.50	\$223.50
		B	10.64-12.12	270-308	341310B+Outlet size+H+Code+(-D)		
12	300	A	12.00-13.20	305-335	341312A+Outlet size+H+Code+(-D)	\$210.50	\$262.90
		B	12.62-14.32	321-364	341312B+Outlet size+H+Code+(-D)		
12-14	300-350	A	14.73-15.65	374-398	34131214+Outlet size+H+Code+(-D)	\$282.70	\$363.50
16-18	400-450	A	17.40-18.88	442-480	34131618+Outlet size+H+Code+(-D)	\$316.00	\$454.00
18	450	A	19.50	495	341318A+Outlet size+H+Code+(-D)	\$370.30	\$491.50
20	500	A	21.60	549	341320A+Outlet size+H+Code+(-D)	\$478.80	\$549.20
24	600	A	25.80	655	341324A+Outlet size+H+Code+(-D)	\$504.30	\$604.20

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 4" Ductile Iron O.D. 4.80 with 3/4CC outlet. Order 3413DI - 4B x 3/4 CC Double Bale. **Part Number:** 341304B075HB-D

NOTE: Please advise when saddles are being ordered for use on C900 pipe.

*Available in 1.25 CC/NPT + 1.5 NPT.

**Available in 1.25 CC/NPT, 1.5 NPS + 2" NPT.

3415DI

DUCTILE IRON SADDLE SINGLE STRAP



BODY CASTING: Ductile Iron per ASTM A536.

STRAP: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194.

NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKET: NBR per ASTM D2000 with Unique dual O-Ring design permanently bonded in recessed casting, with a temperature range of V-40°F to +248°F.

FINISH: Epoxy.

Nominal Pipe Size		Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
1	25	1.31-1.39	33-35	3415010+Outlet size+H+Code	\$86.60	N/A
1 1/4 -1 1/2	32	1.61-1.92	41-49	3415015+Outlet size+H+Code	\$87.20	N/A
2A	50	2.13	54	341502A+Outlet size+H+Code	\$93.20	N/A
2B	50	2.38	61	341502B+Outlet size+H+Code		N/A
2C	50	2.35-2.56	60-65	341502C+Outlet size+H+Code		\$106.10
2 1/4 -2 1/2	55-65	2.44-2.91	62-74	3415025+Outlet size+H+Code	\$94.90	\$108.90
3*	80	2.97-3.54	75-90	3415030+Outlet size+H+Code	\$96.70	\$110.70
3-4**	80-100	3.74-4.55	95-116	3415034+Outlet size+H+Code	\$102.50	\$129.40
4-5***	100-125	4.74-5.63	120-143	3415045+Outlet size+H+Code		
5-6	125-150	5.94-6.70	151-170	3415056+Outlet size+H+Code	\$121.00	\$140.30
6	150	6.84-7.60	174-193	3415060+Outlet size+H+Code		
6C	150	6.63-6.90	168-175	341506C+Outlet size+H+Code	\$135.50	\$141.60
6-8	150-200	7.69-8.72	195-222	3415068+Outlet size+H+Code	\$143.10	\$169.80
8A	200	8.63-9.05	219-229	341508A+Outlet size+H+Code		
8-10	200-250	8.54-10.10	217-257	3415080+Outlet size+H+Code	\$144.60	\$172.20
10-12	250-300	10.64-12.12	270-308	3415100+Outlet size+H+Code	\$175.40	\$221.40
12-14	300-350	12.62-14.32	321-364	3415120+Outlet size+H+Code	\$181.40	\$272.00

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 4" Ductile Iron O.D. 4.80 with 3/4 CC outlet. Order 3415 4-5 x 3/4 CC. **Part Number:** 3415040075HB.

NOTE: Please advise when saddles are being ordered for use on C900 pipe.

*Available with 1.25" CC/NPT + 1.5" NPT

**Available with 1.25" CC/NPT + 1.5" CC/NPT

***Available with 1.25" CC/NPT, 1.5" CC/NPT + 2"NPT

OUTLET CODE										
Outlet	3/4		1		1 1/4		1 1/2		2	
Outlet size	075		100		125		150		200	
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

3417DI

DUCTILE IRON SADDLE WITH STRAPS

BODY CASTING: Ductile Iron per ASTM A536.

STRAPS: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKET: NBR per ASTM D2000 with Unique dual O-Ring design permanently bonded in recessed casting, with a temperature range of -40°F to +248°F.

FINISH: Epoxy.



Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM		Inches	MM		1/2 NPT 3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
2*	50	A	2.38-2.50	61-64	341702A+Outlet size+H+Code	\$175.50	\$190.30
3*	80	A	3.50	89	341703A+Outlet size+H+Code	\$175.80	\$202.00
		B	3.45-4.05	89-103	341703B+Outlet size+H+Code		
4	100	A	4.00-4.50	102-114	341704A+Outlet size+H+Code	\$176.90	\$192.30
		B	4.74-5.63	120-143	341704B+Outlet size+H+Code		N/A
		C	4.74-5.14	120-131	341704C+Outlet size+H+Code	N/A	\$192.30
6	150	A	6.00-6.63	152-168	341706A+Outlet size+H+Code	\$199.20	\$224.40
		B	6.84-7.64	174-194	341706B+Outlet size+H+Code		
		C	6.63-6.90	168-175	341706C+Outlet size+H+Code		
8	200	A	8.00-8.63	203-219	341708A+Outlet size+H+Code	\$250.10	\$278.10
		B	8.54-10.10	216-257	341708B+Outlet size+H+Code		
		C	8.63-9.05	219-229	341708C+Outlet size+H+Code		
10	250	A	10.00-11.10	254-282	341710A+Outlet size+H+Code	\$335.50	\$377.90
		B	10.64-12.12	270-308	341710B+Outlet size+H+Code		
12	300	A	12.00-13.20	305-335	341712A+Outlet size+H+Code	\$340.30	\$388.90
		B	12.62-14.32	321-364	341712B+Outlet size+H+Code		
12-14	300-350	A	14.73-15.65	374-398	34171214+Outlet size+H+Code	\$407.30	\$412.00
16-18	400-450	A	17.40-18.88	442-480	341716A+Outlet size+H+Code	\$415.00	\$465.80
18	450	A	19.50	495	341718A+Outlet size+H+Code	\$638.10	\$678.30
20	500	A	21.60	549	341720A+Outlet size+H+Code	\$714.50	\$757.50
24	600	A	25.80	655	341724A+Outlet size+H+Code	\$840.40	\$890.70

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration.

EXAMPLE: 4" Ductile Iron O.D. 4.80 with 3/4 CC outlet.

Order 3417 - 4B x 3/4 CC Epoxy.

Part Number: 341704B075HB **NOTE:** Please advise when saddles are being ordered for use on C900 pipe.

*Available in 1.25 CC/NPT + 1.5 NPT.

OUTLET CODE										
Outlet	3/4	1	1 1/4	1 1/2	2					
Outlet size	075	100	125	150	200					
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC
Outlet code	C	B	E	D	G	F	I	H	K	J

IP = NPT CC=AWWA

3417SW

DUCTILE IRON SADDLE WITH SINGLE WIDE STRAP



BODY CASTING: Ductile Iron per ASTM A536.

STRAP: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKET: NBR per ASTM D2000 with Unique dual O-Ring design permanently bonded in recessed casting, with a temperature range of -40°F to +248°F.

FINISH: Epoxy.



Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM		Inches	MM		1/2 NPT 3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT
2*	50	A	2.38-2.50	61-64	341702A+Outlet size+H+Code+(-SW)	\$175.50	\$190.30
3*	80	A	3.50	89	341703A+Outlet size+H+Code+(-SW)	\$175.80	\$202.00
		B	3.45-4.05	89-103	341703B+Outlet size+H+Code+(-SW)		
4	100	A	4.00-4.50	102-114	341704A+Outlet size+H+Code+(-SW)	\$176.90	\$192.30
		B	4.74-5.63	120-143	341704B+Outlet size+H+Code+(-SW)		N/A
		C	4.74-5.14	120-131	341704C+Outlet size+H+Code+(-SW)	N/A	\$192.30
6	150	A	6.00-6.63	152-168	341706A+Outlet size+H+Code+(-SW)	\$199.20	\$224.40
		B	6.84-7.64	174-194	341706B+Outlet size+H+Code+(-SW)		
		C	6.63-6.90	168-175	341706C+Outlet size+H+Code+(-SW)		
8	200	A	8.00-8.63	203-219	341708A+Outlet size+H+Code+(-SW)	\$250.10	\$278.10
		B	8.54-10.10	216-257	341708B+Outlet size+H+Code+(-SW)		
		C	8.63-9.05	219-229	341708C+Outlet size+H+Code+(-SW)		
10	250	A	10.00-11.10	254-282	341710A+Outlet size+H+Code+(-SW)	\$335.50	\$377.90
		B	10.64-12.12	270-308	341710B+Outlet size+H+Code+(-SW)		
12	300	A	12.00-13.20	305-335	341712A+Outlet size+H+Code+(-SW)	\$340.30	\$388.90
		B	12.62-14.32	321-364	341712B+Outlet size+H+Code+(-SW)		
12-14	300-350	A	14.73-15.65	374-398	34171214+Outlet size+H+Code+(-SW)	\$407.30	\$412.00
16-18	400-450	A	17.40-18.88	442-480	341716A+Outlet size+H+Code+(-SW)	\$415.00	\$465.80
18	450	A	19.50	495	341718A+Outlet size+H+Code+(-SW)	\$638.10	\$678.30
20	500	A	21.60	549	341720A+Outlet size+H+Code+(-SW)	\$714.50	\$757.50
24	600	A	25.80	655	341724A+Outlet size+H+Code+(-SW)	\$840.40	\$890.70

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **EXAMPLE:** 4" Ductile Iron O.D. 4.80 with 3/4 CC outlet. Order 3417SW - 4B x 3/4 CC. **Part Number:** 341704B075HB-SW. **NOTE:** Please advise when saddles are being ordered for use on C900 pipe.

*Available in 1.25 CC/NPT + 1.5 NPT.

SEWER SADDLE

BODY CASTING: Ductile Iron per ASTM A536.

ADJUSTABLE STRAP: 3 1/2" wide, type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: 1/2" UNC threads. Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

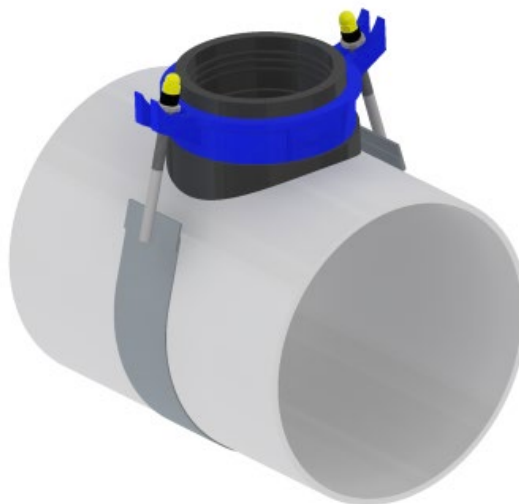
WASHERS: Type 304 Stainless steel per ASTM A 240.

GASKET: SBR per ASTM D2000 with a large profile, which allows for a greater range of use and allows for earth movement, and built in pipe stop to prevent line stoppage due to pipe insertion into main.

FINISH: Epoxy.



Nominal Branch Size	Nominal Pipe Size	Pipe OD Range	Branch Type	Branch O.D	Part Number	List Price	Weight (lbs)
4"	6"-12" 48" Strap	6.27-14.40 Regular Gasket	PVC Sewer	4.215	EL-4.215	\$218.20	10
			Tyseal	4.28	EL-4.28		
			C.I. soil-No-Hub	4.38	EL-4.38		
			PVC	4.50	EL-4.50		
			Universal	4.20-4.80	EL-4.80UN *		
			Clay	5.00-5.38	EL-5.38 *		
	14"-24" 96" Strap	14.40-25.80 Large O.D Gasket	PVC Sewer	4.215	EL-4.215LS	\$277.50	11
			Tyseal	4.28	EL-4.28LS		
			C.I. soil-No-Hub	4.38	EL-4.38LS		
			PVC	4.50	EL-4.50LS		
			Universal	4.20-4.80	EL-4.80UNLS *		
			Clay	5.00-5.38	EL-5.38LS *		
	24"-48" 192" Strap	25.80-54.00 Large O.D Gasket	PVC Sewer	4.215	EL-4.215XLS	\$515.00	13
			Tyseal	4.28	EL-4.28XLS		
			C.I. soil-No-Hub	4.38	EL-4.38XLS		
			PVC	4.50	EL-4.50XLS		
			Universal	4.20-4.80	EL-4.80UNXLS		
			Clay	5.00-5.38	EL-5.38XLS *		
6"	8"-12" 48" Strap	8.00-14.40 Regular Gasket	PVC Sewer C.I Soil-No Hub	6.27-6.30	EL-6.30	\$291.00	12
			Universal	6.27-6.66	EL-6.66UN *		
			Cast Iron- D.I.	6.90	EL-6.90		
			Clay	7.19-8.00	EL-8.00 *		
	14"-24" 96" Strap	14.40-25.80 Large O.D Gasket	PVC Sewer C.I Soil-No Hub	6.27-6.30	EL-6.30LS	\$347.30	13
			Universal	6.27-6.66	EL-6.66UNLS *		
			Cast Iron- D.I.	6.90	EL-6.90LS		
			Clay	7.19-8.00	EL-8.00LS *		
	24"-48" 192" Strap	25.80-54.00 Large O.D Gasket	PVC Sewer C.I Soil-No Hub	6.27-6.30	EL-6.30XLS	\$584.90	15
			Universal	6.27-6.66	EL-6.66UNXLS *		
			Cast Iron- D.I.	6.90	EL-6.90XLS		
			Clay	7.19-8.00	EL-8.00XLS *		



REPAIR COMPONENTS

Branch Size	Size	List Price				Strap
		Gasket	Saddle Casting	Sliding Bolt	Hose Clamp	
4"	6-12"	\$71.13	\$76.50	\$26.00	\$21.20	REG (48") \$44.50
	14-24"	\$97.02				
	24-48"W	\$97.02				LS (96") \$65.50
6"	8-12"	\$125.26	\$95.10	\$26.00	\$22.50	XLS (192") \$215.30
	14-24"	\$148.35				
	24-48"	\$148.35				

How to order: Specify catalog number. Example: To fit 4" branch to 6"-12" nominal pipe with branch 4.50", order EL-4.50LS

* EL Sewer -saddle for Universal and Clay pipe include stainless steel hose clamp

** Standard gaskets are NOT interchangeable with large gaskets.



TAPPING SLEEVES



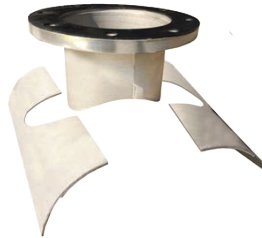
PowerSeal
PIPELINE PRODUCTS CORPORATION

TAPPING SLEEVES



3425AS

3/4" - 8" diameter all 304 stainless steel hot tap sleeve



3428

Carbon or stainless steel weld-on outlets



3431

Carbon or stainless steel tapping sleeve for reinforced concrete pipe.



3436AS

All stainless steel corp stop termination sleeve.



3460

4" and up fabricated carbon steel tap sleeve with flange outlet.



3460MJ

4" - 30" diameter all carbon steel tapping sleeve with mechanical joint outlet.



3460HP

4" diameter and up all stainless steel hi-pressure tapping sleeve with flanged outlet.



3460MJ-HP

4" diameter and up all stainless steel hi-pressure tapping sleeve with mechanical joint outlet. Outlet sizes from 2 - 24".



3465CS

4" diameter and up carbon steel tapping sleeve with threaded outlet. Available with NPT or AWWA (CC) tapped outlets 1/2" - 6".



3480AS/CS

3" - 30" all stainless tapping sleeve with flange outlet, weld on bolt design.



3480MJ AS/CS

3" - 30" all stainless tapping sleeve with mechanical joint outlet, weld on bolt design. Outlet sizes from 2 - 12".



3490AS/CS

4" - 36" all stainless tapping sleeve with flange outlet, drop in bolt design.



3490MJ AS/CS

4" - 36" all stainless steel tapping sleeve with mechanical joint outlet. drop in bolt design. Outlet sizes from 2" to 24".



3495AS

4" diameter and up all stainless steel tapping sleeve w/threaded outlet. Available with NPT or AWWA (CC) tapped outlets 1/2 - 6".



3490ASMJ-Y

All stainless fabricated tapping sleeve with mechanical joint or flanged outlet in Y position

3425 POWERSTOP SADDLE

(FOR COPPER, STEEL AND PVC PIPE)

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: 3/16" thick gridded NBR per ASTM D2000 from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40° to +248° F.

ARMOR PLATE: Type 304 (18-8) Stainless Steel per ASTM A240. **BOLTS & NUTS:** Type 304 (18-8) Stainless Steel per ASTM A193 & A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

WASHERS: Delrin per ASTM D6778.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A312.



Nominal Pipe Size		Outlet Size MIP		Copper Tubing OD			Steel Pipe OD			List Price
In	MM	Inches	MM	In	MM	Part Number	In	MM	Part Number	
3/4	20	3/4	20	0.88	22	3425007A0000	1.05	26	3425007B0000	\$387.70
1	25	3/4	20	1.13	29	3425010A0000	1.32	34	3425010C0000	\$395.60
		1	25			3425010B0000			3425010D0000	\$427.30
1 1/4	32	3/4	20	1.38	35	3425012A0000	1.66	42	3425012A000S	\$403.50
		1	25			3425012B0000			3425012D0000	\$433.40
		1 1/4	32			3425012C0000			3425012E0000	\$433.20
1 1/2	40	3/4	20	1.63	41	3425015A0000	1.90	48	3425015A000S	\$411.60
		1	25			3425015B0000			3425015D0000	\$514.70
		1 1/4	32			3425015H0000			3425015E0000	\$534.90
		1 1/2	40			3425015C0000			3425015F0000	\$544.80
2	50	3/4	20	2.13	54	3425020A0000	2.38	60	3425020A000S	\$425.50
		1	25			3425020B0000			3425020E0000	\$524.90
		1 1/4	32			3425020H0000			3425020I0000	\$540.50
		1 1/2	40			3425020C0000			3425020F0000	\$566.40
		2	50			3425020D0000			3425020G0000	\$603.60
2 1/2	65	3/4	20	2.63	67	3425025A0000	2.88	73	3425025A000S	\$433.90
		1	25			3425025B0000			3425025E0000	\$535.20
		1 1/4	32			3425025K0000			3425025I0000	\$556.30
		1 1/2	40			3425025J0000			3425025F0000	\$577.20
		2	50			3425025C0000			3425025G0000	\$710.20
		2 1/2	65			3425025D0000			3425025H0000	\$828.50
		3	80			3425030A0000			3425030A000S	\$442.60
3	80	3/4	20	3.13	80	3425030B0000	3.50	80	3425030F0000	\$546.10
		1	25			3425030J0000			3425030M0000	\$567.40
		1 1/4	32			3425030C0000			3425030G0000	\$588.80
		1 1/2	40			3425030D0000			3425030H0000	\$724.40
		2	50			3425030L0000			3425030K0000	\$845.40
		2 1/2	65			3425030E0000-12			3425030I0000	\$878.10
		3	80							

Nominal Pipe Size		Outlet Size MIP		Copper Tubing OD			Steel Pipe OD			List Price
In	MM	Inches	MM	In	MM	Part Number	In	MM	Part Number	
4	100	3/4	20	4.13	105	3425040A0000	4.50	105	3425040A000S	\$451.50
		1	25			3425040B0000			3425040G0000	\$557.30
		1 1/4	32			3425040L0000			3425040N0000	\$579.00
		1 1/2	40			3425040C0000			3425040H0000	\$600.60
		2	50			3425040D0000			3425040I0000	\$739.20
		2 1/2	65			3425040M0000			3425040Q0000	\$862.70
		3	80			3425040E0000-12			3425040J0000	\$896.00
		4	100			3425040F0000-12			3425040K0000	\$913.90
5	125	3/4	20	5.13	130	3425050A000S	5.56	141	3425050Q0000	\$460.50
		1	25			3425050A0000			3425050M0000	\$568.60
		1 1/4	32			3425050N0000			3425050N000S	\$590.60
		1 1/2	40			3425050B0000			3425050H0000	\$612.60
		2	50			3425050C0000			3425050G0000	\$753.60
		2 1/2	65			3425050E0000			3425050I0000	\$880.20
		3	80			3425050D0000-12			3425050J0000-12	\$914.30
6	150	3/4	20	6.13	156	3425060A000S	6.63	168	3425060O0000	\$469.80
		1	25			3425060A0000			3425060G0000	\$580.20
		1 1/4	32			3425060H0000			3425060P0000	\$602.70
		1 1/2	40			3425060B0000			3425060H000S	\$625.00
		2	50			3425060C0000			3425060I0000	\$768.90
		2 1/2	65			3425060L0000			3425060J0000	\$898.20
		3	80			3425060D0000-12			3425060M0000-12	\$933.00

CUSTOM SIZES AVAILABLE.

The Model 3425 is used for tapping water, sewage, and air systems. The PowerStop Saddle offers a wide range of tapping outlets including size-on-size for copper, steel, and PVC pipelines. Male NPT outlets are available in all standard pipe sizes and the entire fitting is fabricated from stainless steel. The patented complete circle gasket provides a safe and reliable seal while insulating the saddle from galvanic corrosion.

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code. EXAMPLE: 2" Copper Tubing O.D. 2.13 with 1" MIPT. Order 3425 - 2B. **Part Number:** 3425020B0000.

3428 POWERSEAL TAPPING CONNECTIONS (FIELD WELD)

Weld-on outlets are reliable, fast and affordable with PS Field Weld connections.

Complete sleeves, partial sleeves, and outlets are available for steel pipe sizes 6" and above with size on size and reducing outlets. Other configurations of this design are available.



3428D
Hat flange field
weld outlet

3428C
Flanged nozzle
field weld outlet

3428B
Three piece field
weld saddle

3428E
Field weld tapping
sleeve

3428A
Field weld outlet

3431 STAINLESS STEEL TAPPING SLEEVE

(FOR REINFORCED CONCRETE PIPE)

BODY AND OUTLET: Type 304 Stainless Steel per ASTM A240

FLANGE: Type 304 Stainless Steel per ASTM A240, ANSI Class 150 is standard, machined to be compatible with MSS-SSP 60

STRAPS: Type 304 Stainless Steel per ASTM A240, and Type 304 Stainless Steel Studs per ASTM A194

NUTS: Type 304 Stainless Steel per ASTM A194

OUTLET GASKET: SBR produced from 100% new rubber per ASTM D2000. Suitable for water and sewer applications with a temperature range of -40° to +200° F.

GROUT PIPES: Type 304 Stainless Steel per ASTM A312

GROUT SEAL: One inch square high density foam.



3436AS TERMINATION SLEEVE

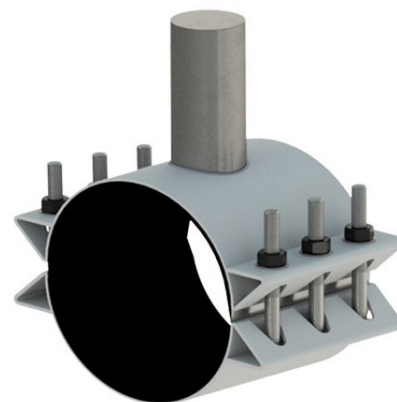
(FOR REINFORCED CONCRETE PIPE)

BRANCH: Type 304 (18-8) Stainless Steel Per ASTM A240.

PANEL: Type 304 (18-8) Stainless Steel Per ASTM A240.

BRANCH GASKET: NBR per ASTM D2000 with Hydro TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194 or Low Alloy Bolts and Nuts per ASTM A325 and ASTM A563. NOTE: Stainless Steel Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

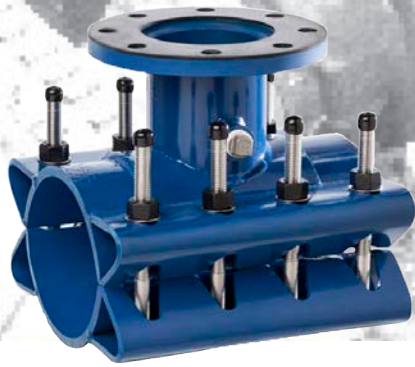


Nominal Pipe Size			Pipe OD Range		Part number	List Price
In	MM	Letter	Inches	MM		
4	100	C	4.80-5.00	112-127	343604C030AS	\$1,251.90
6	150	C	6.90-7.30	175-185	343606C030AS	\$1,372.70
					343606C030AS-XL	\$1,724.90
8	200	C	9.05-9.45	230-240	343608C030AS	\$1,405.90
					343608C030AS-XL	\$1,758.10
10	250	C	11.10-11.50	282-292	343610C030AS	\$1,446.20
					343610C030AS-XL	\$1,798.40
12	300	C	13.20-13.60	335-345	343612C030AS	\$1,513.80
					343612C030AS-XL	\$1,866.00

CUSTOM OD SIZES AVAILABLE

BRANCH: 1/2" to 1" corporation stop enclosure for a 6" pipe size. Order part number 343606C030AS.

PANEL: 3" cap for small outlets, 1/2 to 1", 6" cap for large outlets. Small outlet fitting is 8" wide, large outlets would be 12" wide. 4" diameter termination sleeve only available for 1/2-1" corporation sizes.



FABRICATED CARBON STEEL TAPPING SLEEVE

3460CS

TAPPING SLEEVES

FLANGE: Carbon Steel per ASTM A36 and AWWA C207.

PANEL: Carbon Steel per ASTM A36.

BRANCH GASKET: NBR per ASTM D2000.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111. Or Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

FINISH: Epoxy per AWWA C210.



Nominal Pipe Size			Pipe OD Range		Branch Size		Bolts & Nuts: Low alloy steel		Bolts & Nuts: Stainless steel	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
4	100	A	4.50	114	4	100	3460+Nominal pipe size+ letter+Branch size+EO	\$1,283.00	3460+Nominal pipe size+ letter+Branch size+ES	\$1,499.80
		B	4.80	122						
6	150	A	6.56-6.69	167-170	4	100		\$1,283.00		\$1,499.80
		B	6.83-7.16	173-182						
		C	7.05-7.40	179-188	6	150		\$1,505.90		\$1,722.70
		D	7.40-7.73	188-196						
8	200	A	7.80-8.16	198-207	4	100		\$1,396.70		\$1,613.60
		B	8.53-8.72	217-221				6		150
		C	8.98-9.37	228-238	8	200				
		D	9.27-9.69	235-246						
10	250	A	9.83-10.25	250-260	4	100		\$1,405.90		\$1,622.70
		B	10.64-10.86	270-276				6		150
		C	11.03-11.47	280-291	8	200				
		D	11.36-11.80	289-300				10		250
		E	11.76-12.24	299-311						
12	300	A	12.62-12.88	321-327	4	100		\$1,519.50		\$1,736.40
		B	13.13-13.60	334-345				6		150
		C	13.60-14.09	345-358	8	200				
		D	14.09-14.56	358-370				10		250
					12	300				
14	350	A	14.59-15.08	371-383	4	100		\$1,592.30		\$1,809.20
		B	15.23-15.80	387-401				6		150
		C	15.73-16.22	400-412	8	200				
		D	16.30-16.73	414-425				10		250
					12	300				
16	400	A	16.74-17.26	425-438	4	100		\$1,656.10		\$1,872.90
		B	17.33-17.87	440-454				6		150
		C	17.88-18.43	473-487	8	200				
		D	18.62-19.19	454-468				10		250
					12	300				
18	450	A	18.87-19.45	479-494	4	100		\$1,679.20		\$1,896.00
		B	19.41-20.01	493-508				6		150
		C	20.00-20.60	508-523	8	200				
		D	20.29-20.94	515-532				10		250
		E	20.93-21.57	532-548	12	300				

Nominal Pipe Size			Pipe OD Range		Branch Size		Bolts & Nuts: Low alloy steel		Bolts & Nuts: Stainless steel	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
20	500	A	21.57-22.15	546-563	4	100	3460+inches+letter+Branch size+EO	\$1,747.00	3460+Nominal pipe size+letter+Branch size+ES	\$1,963.80
		B	22.16-22.81	563-579		150		\$1,970.00		\$2,186.80
		C	22.78-23.45	579-596		200		\$2,513.70		\$2,802.70
		D	23.46-24.16	596-614		250		\$3,384.90		\$3,746.20
		E	24.15-24.85	613-631		300		\$3,694.20		\$4,055.60
		F	24.82-25.52	630-648						
24	600	A	25.71-26.41	653-671	4	100		\$2,006.30		\$2,223.20
		B	26.55-27.25	674-692	6	150		\$2,261.20		\$2,478.00
		C	27.26-27.96	692-710	8	200		\$2,929.90		\$3,219.10
		D	28.14-28.84	715-733	10	250		\$4,090.70		\$4,292.20
					12	300		\$4,253.00		\$4,556.00
30	750	A	29.78-30.48	756-774	4	100		\$2,192.90		\$2,409.70
		B	30.48-31.18	774-792	6	150		\$2,506.70		\$2,723.60
					8	200		\$3,257.60		\$3,546.60
					10	250		\$4,044.60		\$4,405.90
		C	31.52-32.22	801-818	12	300		\$4,968.30		\$5,385.70

CUSTOM SIZES AVAILABLE. HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. **EXAMPLE:** 16" Asbestos-Cement Class 150 O.D. 18.72 with 8 inch Branch size and alloy bolts. Order 3460 - 16D x 8. **Part Number:** 3460+inches+letter+Branch size+EO = 346016D08EO . For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating.

3460CS-MJ

CARBON STEEL TAPPING SLEEVE W/MECHANICAL JOINT OULET

MJ OUTLET: Carbon Steel per AWWA C111. Solid One-Piece casting.

PANEL: Carbon Steel per ASTM A36.

BRANCH GASKET: NBR per ASTM D2000.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111. Or Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

FINISH: Epoxy per AWWA C210.



Nominal Pipe Size			Pipe OD Range		Branch Size		Bolts & Nuts: Low alloy steel		Bolts & Nuts: Stainless steel	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
4	100	A	4.50	114	4	100	3460+Nominal pipe size+letter+Branch size+EO-MJCS	\$1,413.00	3460+Nominal pipe size+letter+Branch size+ES-MJCS	\$1,629.80
		B	4.80	122						
6	150	A	6.56-6.69	167-170	4	100		\$1,413.00		\$1,629.80
		B	6.83-7.16	173-182						
		C	7.05-7.40	179-188	6	150		\$1,685.90		\$1,902.70
		D	7.40-7.73	188-196						

Nominal Pipe Size			Pipe OD Range		Branch Size		\$Bolts & Nuts: Low alloy steel		Bolts & Nuts: Stainless steel	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
8	200	A	7.80-8.16	198-207	4 6 8	100	3460+Nominal pipe size+letter +Branch size+EO-MJCS	\$1,526.70	3460+Nominal pipe size+ letter+Branch size+ES-MJCS	\$1,743.60
		B	8.53-8.72	217-221		150		\$1,704.10		\$1,920.90
		C	8.98-9.37	228-238		200		\$2,200.30		\$2,489.40
		D	9.27-9.69	235-246		250		\$1,535.90		\$1,752.70
10	250	A	9.83-10.25	250-260	4 6 8 10	100		\$1,749.60		\$1,966.70
		B	10.64-10.86	270-276		150		\$2,273.10		\$2,562.10
		C	11.03-11.47	280-291		200		\$3,557.30		\$3,918.60
		D	11.36-11.80	289-300		250		\$1,649.50		\$1,866.40
		E	11.76-12.24	299-311		300		\$1,840.60		\$2,057.50
12	300	A	12.62-12.88	321-327	4 6 8 10 12	100		\$2,400.50		\$2,689.60
		B	13.13-13.60	334-345		150		\$3,875.70		\$4,237.10
		C	13.60-14.09	345-358		200		\$4,192.40		\$4,553.80
		D	14.09-14.56	358-370		250		\$1,722.30		\$1,939.20
						300		\$2,036.00		\$2,252.90
14	350	A	14.59-15.08	371-383	4 6 8 10 12	100		\$2,421.10		\$2,710.30
		B	15.23-15.80	387-401		150		\$4,089.50		\$4,452.20
		C	15.73-16.22	400-412		200		\$4,570.10		\$4,931.40
		D	16.30-16.73	414-425		250		\$1,786.10		\$2,002.90
						300		\$2,036.20		\$2,253.00
16	400	A	16.74-17.26	425-438	4 6 8 10 12	100		\$2,421.10		\$2,862.50
		B	17.33-17.87	440-454		150		\$4,089.50		\$4,450.90
		C	17.88-18.43	473-487		200		\$4,570.10		\$4,962.90
		D	18.62-19.19	454-468		250		\$1,809.20		\$2,026.00
18	450	A	18.87-19.45	479-494	4 6 8 10 12	100		\$2,062.50		\$2,279.3
		B	19.41-20.01	493-508		150		\$2,499.90		\$2,941.30
		C	20.00-20.60	508-523		200		\$4,215.50		\$4,576.90
		D	20.29-20.94	515-532		250		\$4,596.30		\$4,989.10
		E	20.93-21.57	532-548		300		\$1,877.00		\$2,093.80
20	500	A	21.57-22.15	546-563	4 6 8 10 12	100		\$2,150.00		\$2,366.80
		B	22.16-22.81	563-579		150		\$2,798.70		\$3,087.70
		C	22.78-23.45	579-596		200		\$4,348.90		\$4,710.20
		D	23.46-24.16	596-614		250		\$4,679.20		\$5,040.60
		E	24.15-24.85	613-631		300		\$2,136.30		\$2,353.20
		F	24.82-25.52	630-648		300		\$2,441.20		\$2,658.00
24	600	A	25.71-26.41	653-671	4 6 8 10 12	100		\$3,214.90		\$3,504.10
		B	26.55-27.25	674-692		150		\$5,054.70		\$5,256.20
		C	27.26-27.96	692-710		200		\$5,238.00		\$5,541.00
		D	28.14-28.84	715-733		250		\$2,322.90		\$2,539.70
						300		\$2,686.70		\$2,903.60
30	750	A	29.78-30.48	756-774	4 6 8 10 12	100		\$3,542.60		\$3,831.60
		B	30.48-31.18	774-792		150		\$5,008.60		\$5,369.90
						200		\$5,953.30		\$6,370.70
		C	31.52-32.22	801-818		250				
						300				

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped, then specify the desired branch size and type of bolts. EXAMPLE: 16" Asbestos-Cement Class 150 O.D. 19.60 with 8 inch MJ Branch and Stainless Steel bolts and nuts. Order 3460MJCS -18B x 8. **Part Number:** 3460+Nominal pipe size+letter+Branch size+EO-MJCS = 346018B080ES-MJCS . For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating.*Manufactured under U.S. Patent 6,330,771.

3460AS

STAINLESS STEEL TAPPING SLEEVE (HIGH PRESSURE)

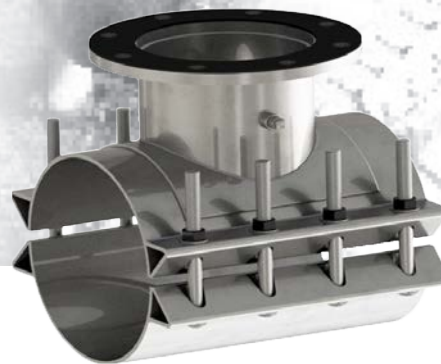
USE: Faster, economical and simple method to connect valve to existing or new lines under pressure.

BRANCH GASKET: NBR per ASTM D2000.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Stainless Steel hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

OUTLET: Type 304 (18-8) Stainless Steel per ANSI 21.11.



Nominal Pipe Size			Pipe OD Range		Branch Size		Part number	List Price
In	MM	Letter	Inches	MM	Inches	MM		
4	100	A	4.50	114	4	100	3460+Nominal pipe size+Letter +Branch size+ AS-HP	\$3,763.30
		B	4.80	122				
6	150	A	6.56-6.69	167-170	4	100		\$3,763.30
		B	6.83-7.16	173-182				
		C	7.05-7.40	179-188	6	150		\$4,229.50
		D	7.40-7.73	188-196				
8	200	A	7.80-8.16	198-207	4	100		\$4,014.70
		B	8.53-8.72	217-221				
		C	8.98-9.37	228-238	6	150		\$4,439.80
		D	9.27-9.69	235-246				8
10	250	A	9.83-10.25	250-260	4	100		\$4,426.10
		B	10.64-10.86	270-276				6
		C	11.03-11.47	280-291	8	200		\$5,856.80
		D	11.36-11.80	289-300				10
		E	11.76-12.24	299-311				
12	300	A	12.62-12.88	321-327	4	100		\$4,485.50
		B	13.13-13.60	334-345				6
		C	13.60-14.09	345-358	8	200		\$6,121.90
		D	14.09-14.56	358-370				10
					12	300		\$10,971.60
14	350	A	14.59-15.08	371-383	4	100		\$5,568.80
		B	15.23-15.80	387-401				6
		C	15.73-16.22	400-412	8	200		\$8,347.90
		D	16.30-16.73	414-425				10
					12	300		\$11,899.30
16	400	A	16.74-17.26	425-438	4	100		\$5,952.80
		B	17.33-17.87	440-454				6
		C	17.88-18.43	473-487	8	200		\$8,878.10
		D	18.62-19.19	454-468				10
					12	300		\$12,114.50
18	450	A	18.87-19.45	479-494	4	100		\$6,053.40
		B	19.41-20.01	493-508				6
		C	20.00-20.60	508-523	8	200		\$9,070.10
		D	20.29-20.94	515-532				10
		E	20.93-21.57	532-548	12	300		\$12,241.00

Nominal Pipe Size			Pipe OD Range		Branch Size		Part number	List Price
In	MM	Letter	Inches	MM	Inches	MM		
20	500	A	21.57-22.15	546-563	4 6 8 10 12	100	3460+Nominal pipe size+Letter +Branch size+ AS-HP	\$6,263.60
		B	22.16-22.81	563-579		150		\$6,925.70
		C	22.78-23.45	579-596		200		\$9,408.40
		D	23.46-24.16	596-614		250		\$11,407.90
		E	24.15-24.85	613-631		300		\$12,243.80
		F	24.82-25.52	630-648				
24	600	A	25.71-26.41	653-671	4 6 8 10 12	100		\$6,711.60
		B	26.55-27.25	674-692		150		\$7,219.20
		C	27.26-27.96	692-710		200		\$10,048.30
		D	28.14-28.84	715-733		250		\$11,416.20
						300		\$12,416.60
						30		750
B	30.48-31.18	774-792	150	\$9,493.40				
			200	\$10,471.60				
			250	\$11,486.00				
			C	31.52-32.22	801-818		300	

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. **EXAMPLE:** 16" Asbestos-Cement Class 150 O.D. 18.72 with 8 inch Branch size and alloy bolts. Order 3460AS - 16D x 8. **Part Number:** 3460+Nominal pipe size+Letter+Branch size+ AS-HP = 346016D080AS-HP .For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating.



3460AS-MJ

STAINLESS STEEL TAPPING SLEEVE W/MECHANICAL JOINT OUTLET

USE: Faster, economical and simple method to connect valve to existing or new lines under pressure.

BRANCH: NBR per ASTM D2000.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Stainless Steel hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

OUTLET: Type 304 (18-8) Stainless Steel per ANSI 21.11.



Nominal Pipe Size			Pipe OD Range		Branch Size		Part number	List Price
In	MM	Letter	Inches	MM	Inches	MM		
4	100	A	4.50	114	4	100	3460+Nominal pipe size+Letter +Branch size+ MJ-HP	\$4,013.30
		B	4.80	122				
6	150	A	6.56-6.69	167-170	4	100		\$4,013.30
		B	6.83-7.16	173-182				
		C	7.05-7.40	179-188	6	150		\$4,729.50
		D	7.40-7.73	188-196				

Nominal Pipe Size			Pipe OD Range		Branch Size		Part number	\$List Price
In	MM	Letter	Inches	MM	Inches	MM		
8	200	A	7.80-8.16	198-207	4 6 8	100	3460+Nominal pipe size+Letter +Branch size+ MJ-HP	\$4,264.70
		B	8.53-8.72	217-221		150		\$4,939.80
		C	8.98-9.37	228-238		200		\$6,415.10
		D	9.27-9.69	235-246		250		\$4,676.10
10	250	A	9.83-10.25	250-260	4 6 8 10	100		\$5,259.80
		B	10.64-10.86	270-276		150		\$6,786.80
		C	11.03-11.47	280-291		200		\$9,677.10
		D	11.36-11.80	289-300		250		\$4,735.50
		E	11.76-12.24	299-311		300		\$5,470.00
12	300	A	12.62-12.88	321-327	4 6 8 10 12	100		\$7,051.90
		B	13.13-13.60	334-345		150		\$9,919.30
		C	13.60-14.09	345-358		200		\$12,411.60
		D	14.09-14.56	358-370		250		\$5,818.80
						300		\$6,626.50
14	350	A	14.59-15.08	371-383	4 6 8 10 12	100		\$9,277.90
		B	15.23-15.80	387-401		150		\$12,355.60
		C	15.73-16.22	400-412		200		\$13,339.30
		D	16.30-16.73	414-425		250		\$6,202.80
						300		\$7,042.40
16	400	A	16.74-17.26	425-438	4 6 8 10 12	100		\$9,808.10
		B	17.33-17.87	440-454		150		\$12,639.00
		C	17.88-18.43			200		\$13,554.50
		D	18.62-19.19	473-487		250		\$6,303.40
						300		\$7,170.40
18	450	A	18.87-19.45	479-494	4 6 8 10 12	100		\$10,000.10
		B	19.41-20.01	493-508		150		\$12,679.90
		C	20.00-20.60	508-523		200		\$13,681.00
		D	20.29-20.94	515-532		250		\$6,513.60
		E	20.93-21.57	532-548		300		\$7,425.70
20	500	A	21.57-22.15	546-563	4 6 8 10 12	100		\$10,338.40
		B	22.16-22.81	563-579		150		\$12,727.90
		C	22.78-23.45	579-596		200		\$13,683.80
		D	23.46-24.16	596-614		250		\$6,961.60
		E	24.15-24.85	613-631		300		\$7,719.20
		F	24.82-25.52	630-648		300		\$10,978.30
24	600	A	25.71-26.41	653-671	4 6 8 10 12	100		\$12,736.20
		B	26.55-27.25	674-692		150		\$13,856.60
		C	27.26-27.96	692-710		200		\$8,747.10
		D	28.14-28.84	715-733		250		\$9,993.40
						300		\$11,401.60
30	750	A	29.78-30.48	756-774	4 6 8 10 12	100		\$12,806.00
		B	30.48-31.18	774-792		150		\$13,922.30
						200		
						250		
		C	31.52-32.22	801-818		300		

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped, then specify the desired branch size and type of bolts. EXAMPLE: 16" Asbestos-Cement Class 150 O.D. 19.60 with 8 inch MJ Branch and Stainless Steel bolts and nuts. Order 3460MJAS-18B x 8. **Part Number:** 3460+Nominal pipe size+Letter+Branch size+ MJ-HP = 346018B080MJ-HP. For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating.*Manufactured under U.S. Patent 6,330,771.



TAPPING SLEEVE W/THREADED OUTLET 3465

(FOR UNIQUE TAPPING REQUIREMENTS, LARGER DIAMETER PIPES AND THIN WALL PIPE NEEDING STABILIZATION)

OUTLET: Carbon Steel per ASTM A36 and AWWA C207.

PANEL: Carbon Steel per ASTM A36.

BRANCH GASKET: NBR per ASTM D2000.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C111. Or Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

FINISH: Epoxy per AWWA C210.



MEETS
AWWA
C230

Nominal Pipe Size		Letter	Pipe OD Range		Part number	Stainless steel 304 B&N	
						Outlet Size / List price	
Inches	MM		3/4 NPT - 1 NPT 1 1/4 NPT - 1 1/2NPT 2 NPT - 2 1/2 NPT	3 NPT - 4 NPT			
4	100	A	4.50	114	3465+Nominal pipe size+Letter +Outlet size+Outlet code	POA	POA
		B	4.80	122			
6	150	A	6.63	168		\$909.50	\$1,299.10
		B	6.90	175			
8	200	A	8.63	219		\$939.20	\$1,327.20
		B	9.05	229			
10	250	A	10.75	273		\$1,168.20	\$1,530.10
		B	11.10	281			
12	300	A	12.75	323		\$1,207.30	\$1,564.50
		B	13.20	335			
14	350	A	14.59-15.08	370-383		\$1,244.70	\$1,598.40
		B	15.23-15.80	386-401			
		C	16.30-16.70	414-424			
16	400	A	17.33-17.87	440-453		\$1,283.10	\$1,632.40
		B	18.62-19.19	472-487			
18	450	A	19.41-20.01	493-508		\$1,330.50	\$1,713.40
		B	20.93-21.57	531-547			
20	500	A	21.51-22.15	546-562		\$1,392.50	\$1,730.30
		B	23.46-24.16	595-613			
24	600	A	25.71-26.41	653-670		\$1,444.20	\$1,994.60
		B	28.14-28.84	714-732			
30	750	A	31.52-32.22	800-818		\$1,557.50	\$2,121.40
36	900	A	38.10-38.75	967-984		\$2,291.20	\$2,855.00
42	1050	A	44.10-44.70	1120-1135		\$3,024.80	\$4,055.20
48	1200	A	50.40-51.00	1280-1295		\$3,758.50	\$4,291.60
54	1650	A	56.60-57.25	1437-1454		POA	POA

Outlet	Outlet size	Outlet code
3/4 NPT	075	TC
1 NPT	100	TE
1 1/4 NPT	125	TG
1 1/2 NPT	150	TI
2 NPT	200	TK
3 NPT	300	TP
4 NPT	400	TM

CUSTOM SIZES AVAILABLE. Other options: CC thread configurations. Stainless Steel Bolts & Nuts also available upon request. (Additional charges apply)

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired Outlet size. EXAMPLE: 16" Asbestos-Cement Class 150 O.D. 18.72 with 1" NPT Threaded Outlet . Order 3465CS - 16B x 1 NPT. **Part Number:** 3465+Nominal pipe size+Letter+Outlet size+Outlet code = 346516B100TE .

3480AS/3480CS

STAINLESS STEEL TAPPING SLEEVE W/FLANGE OUTLET

FLANGE: Type 304 (18-8) Stainless Steel or A36 Carbon Steel per AWWA C207.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240.

SHELL GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

BRANCH GASKET: NBR per ASTM D2000 with Hydro TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE:

Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

WASHERS: Delrin per ASTM D6778.



Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel flange		Carbon steel flange	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
4	100	A	4.50-4.70	114-119	2	50	3480+Nominal pipe size+ Letter+Branch size+AS	\$2,015.00	3480+Nominal pipe size+ Letter+Branch size+CS	\$1,529.00
		B	4.70-4.90	119-124		80		\$2,015.00		\$1,529.00
		C	4.80-5.00	112-127		100		\$2,015.00		\$1,529.00
		D	5.10-5.30	130-135						
		E	5.20-5.40	132-137						
6	150	A	6.00-6.20	152-157	2	50		\$2,100.00		\$1,588.60
		B	6.60-7.00	168-178	3	80		\$2,100.00		\$1,588.60
		C	6.90-7.30	175-185	4	100		\$2,100.00		\$1,588.60
		D	7.10-7.50	180-191	6	150		\$2,394.90		\$1,808.90
8	200	A	7.90-8.30	201-211	2	50		\$2,174.40		\$1,612.10
		B	8.60-9.05	218-230	3	80		\$2,174.40		\$1,612.10
		C	9.05-9.45	230-240	4	100		\$2,174.40		\$1,612.10
		D	9.20-9.60	234-244	6	150		\$2,418.30		\$1,714.40
					8	200		\$3,004.40		\$2,296.30
10	250	A	9.90-10.30	251-262	2	50		\$2,361.30		\$1,777.20
		B	10.70-11.10	272-282	3	80		\$2,361.30		\$1,777.20
		C	11.10-11.50	282-292	4	100		\$2,361.30		\$1,777.20
		D	11.40-11.80	290-300	6	150		\$2,564.60		\$1,911.00
		E	11.80-12.20	300-310	8	200		\$3,251.90		\$2,319.80
					10	250		\$5,388.70		\$3,964.00
12	300	A	11.90-12.30	302-312	2	50		\$2,793.70		\$1,981.70
		B	12.50-12.90	318-328	3	80		\$2,793.70		\$1,981.70
		C	13.20-13.60	335-345	4	100		\$2,793.70		\$1,981.70
		D	13.40-13.80	340-351	6	150		\$3,073.70		\$2,127.50
					8	200		\$3,716.50		\$2,492.80
					10	250		\$5,853.40		\$4,136.70
		E	13.90-14.30	355-363	12	300		\$6,973.30		\$4,502.40
14	350	A	15.00-15.40	381-391	2	50		\$3,870.10		\$3,124.20
		B	15.30-15.70	389-399	3	80		\$3,870.10		\$3,124.20
					4	100		\$3,870.10		\$3,124.20
					6	150		\$4,162.40		\$3,239.40
		C	15.90-16.30	404-414	8	200		\$5,576.90		\$4,227.40
					10	250		\$7,548.60		\$5,685.80
					12	300		\$8,941.00		\$6,251.20
		D	16.40-16.80	417-427						

Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel flange		Carbon steel flange	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
16	400	A	17.00-17.40	432-442	2	50	3480+Nominal pipe size+ Letter+Banch size+AS	\$4,469.70	3480+Nominal pipe size+ Letter+Banch size+CS	\$3,688.00
					3	80		\$4,469.70		\$3,688.00
					4	100		\$4,469.70		\$3,688.00
		B	17.40-17.80	442-452	6	150		\$4,842.80		\$3,803.30
					8	200		\$5,768.10		\$4,405.80
					10	250		\$8,009.60		\$6,120.60
		C	17.70-18.10	450-460	12	300		\$9,183.70		\$6,479.80
								\$4,562.70		\$3,776.30
								\$4,562.70		\$3,776.30
		B	18.60-19.00	472-483	4	100		\$4,562.70		\$3,776.30
					6	150		\$4,936.60		\$3,891.80
					8	200		\$5,935.70		\$4,564.40
18	450	A	18.40-18.80	467-478	2	50		\$8,202.40		\$6,302.20
					3	80		\$9,376.60		\$6,660.80
					4	100		\$5,234.30		\$4,405.70
		B	18.60-19.00	472-483	6	150		\$5,234.30		\$4,405.70
					8	200		\$5,234.30		\$4,405.70
					10	250		\$5,607.50		\$4,522.50
		C	19.30-19.70	490-500	12	300		\$6,852.90		\$5,427.20
								\$9,277.10		\$7,312.70
								\$10,451.20		\$7,671.80
		D	19.80-20.20	503-513				\$5,234.30		\$4,643.80
								\$5,485.80		\$4,643.80
								\$5,485.80		\$4,643.80
20	500	A	21.40-21.80	544-554	2	50		\$5,485.80		\$4,643.80
					3	80		\$5,485.80		\$4,643.80
					4	100		\$5,485.80		\$4,643.80
					6	150		\$5,858.90		\$4,758.70
					8	200		\$7,131.50		\$5,689.30
					10	250		\$9,482.20		\$7,599.40
		B	21.90-22.30	556-566	12	300		\$10,764.90		\$7,958.30
24	600	A	25.60-26.00	650-660	2	50				
					3	80				
					4	100				
					6	150				
					8	200				
					10	250				
		B	26.20-26.60	665-676	12	300				

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. EXAMPLE: 12" C900 PVC O.D. 13.20 with 6 inch Branch. Order 3480AS Carbon Steel Flange 12C x 6. **Part Number:** 3480+Nominal pipe size+Letter+Banch size+CS = 348012C060CS

For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating.

3480MJ/ 3480MJ-CS

STAINLESS STEEL TAP SLEEVE W /MECHANICAL JOINT OULET

MJ OUTLET: Type 304 (18-8) Stainless Steel per ASTM A743 and ANSI/AWWA C111 or Carbon Steel. Solid One-Piece casting.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240.

SHELL GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

BRANCH GASKET: NBR per ASTM D2000 with Hydro TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. **NOTE:** Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

WASHERS: Delrin per ASTM D6778.



Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel MJ		Carbon steel MJ						
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price					
4	100	A	4.50-4.70	114-119	2	50	3480+Nominal pipe size+ Letter+Banch size+MJ	\$2,324.40	3480+Nominal pipe size+ Letter+Banch size+MJ-CS	\$1,605.40					
		B	4.70-4.90	119-124				\$2,324.40		\$1,605.40					
		C	4.80-5.00	112-127				100		\$2,336.20	\$1,605.40				
		D	5.10-5.30	130-135						150	\$2,409.30	\$1,664.90			
		E	5.20-5.40	132-137									\$2,409.30	\$1,664.90	
6	150	A	6.00-6.20	152-157	2	50		\$2,421.20							\$1,664.90
		B	6.60-7.00	168-178	3	80		\$2,848.70							\$1895.40
		C	6.90-7.30	175-185	4	100		\$2,483.70		\$1,688.50					
		D	7.10-7.50	180-191	6	150		\$2,483.70		\$1,688.50					
8	200	A	7.90-8.30	201-211	2	50		3480+Nominal pipe size+ Letter+Banch size+MJ		\$2,495,60	3480+Nominal pipe size+ Letter+Banch size+MJ-CS	\$1,688.50			
		B	8.60-9.05	218-230	3	80.				\$2,872.10		\$1,800.90			
		C	9.05-9.45	230-240	4	100				\$3,510.80		\$2,417.40			
		D	9.20-9.60	234-244	6	150				\$2,670.60		\$1,853.50			
					8	200				\$2,670.60		\$1,853.50			
10	250	A	9.90-10.30	251-262	2	50				\$2,682.40		\$1,853.50			
		B	10.70-11.10	272-282	3	80				\$3,018.40		\$1,997.50			
		C	11.10-11.50	282-292	4	100				\$3,758,40		\$2,441.00			
		D	11.40-11.80	290-300	6	150				\$6,054.80		\$4,116.40			
		E	11.80-12.20	300-310	8	200				\$3,103.10		\$2,058.10			
12	300	A	11.90-12.30	302-312	2	50							\$3,103.10	\$2,058.10	
		B	12.50-12.90	318-328	3	80	\$3,114.90		\$2,058.10						
		C	13.20-13.60	335-345	4	100	\$3,527.60		\$2,214.10						
		D	13.40-13.80	340-351	6	150	\$4,222.90		\$2,614.00						
14	350	E	13.90-14.30	355-363	8	200	\$6,519.40		\$4,289.10						
					10	250	\$7,709.60		\$4,725.10						
		A	15.00-15.40	381-391	12	300	\$4,244.60		\$3,265.70						
					B	15.30-15.70	389-399		2	50		\$4,244.60	\$3,265.70		
									3	80		\$4,256.50	\$3,265.70		
4	100	\$4,697.00	\$3,325.90												
6	150	\$6,083.30	\$4,348.50												
C	15.90-16.30	404-414	8	200	\$8,214.40	\$5,838.20									
			10	250	\$9,677.30	\$6,473.90									
			12	300											
D	16.40-16.80	417-427	12	300											

Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel MJ		Carbon steel MJ	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
16	400	A	17.00-17.40	432-442	2	50	3480+Nominal pipe size+ Letter+Banch size+MJ	\$4,779.10	3480+Nominal pipe size+ Letter+Banch size+MJ-CS	\$3,764.30
					3	80		\$4,779.10		\$3,764.30
					4	100		\$4,791.00		\$3,764.30
		B	17.40-17.80	442-452	6	150		\$5,296.60		\$3,889.90
					8	200		\$6,274.50		\$4,527.00
					10	250		\$8,675.60		\$6,272.90
		C	17.70-18.10	450-460	12	300		\$9,920.10		\$6,702.50
								\$4,872.00		\$3,852.60
								\$4,872.00		\$3,852.60
		B	18.60-19.00	472-483	4	100		\$4,883.90		\$3,852.60
					6	150		\$5,390.50		\$3,978.40
					8	200		\$6,442.20		\$4,685.50
C	19.30-19.70	490-500	10	250	\$8,868.40	\$6,454.30				
			12	300	\$10,112.90	\$6,883.40				
			D	19.80-20.20	503-513					
20	500	A	21.40-21.80	544-554	2	50	3480+Nominal pipe size+ Letter+Banch size+MJ	\$5,543.60	3480+Nominal pipe size+ Letter+Banch size+MJ-CS	\$4,482.00
					3	80.		\$5,543.60		\$4,482.00
					4	100		\$5,555.40		\$4,482.00
					6	150		\$6,061.30		\$4,609.00
					8	200		\$7,359.30		\$5,548.30
					10	250		\$9,943.20		\$7,465.00
		B	21.90-22.30	556-566	12	300		\$11,187.50		\$7,894.40
								\$5,795.20		\$4,720.10
								\$5,795.20		\$4,720.10
								\$5,807.00		\$4,720.10
								\$6,312.70		\$4,845.20
								\$7,638.00		\$5,810.50
24	600	A	25.60-26.00	650-660	10	250	3480+Nominal pipe size+ Letter+Banch size+MJ	\$10,248.30	3480+Nominal pipe size+ Letter+Banch size+MJ-CS	\$7,751.70
					12	300		\$11,501.20		\$8,180.90
		B	26.20-26.60	665-676						

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. EXAMPLE: 8" C900 PVC O.D. 9.05 with 6 inch Stainless Steel MJ Branch. Order 3480MJ -8C x 6. **Part Number:** 3480+Nominal pipe size+Letter+Banch size+MJ = 348008C060MJ . For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating.

*Manufactured under U.S. Patent 6,330,771.

3490AS/ 3490CS

STAINLESS SLEEVE TAP SLEEVE W /FLANGE OUTLET

FLANGE: Type 304 (18-8) Stainless Steel per ASTM A743 and ANSI/AWWA C111 or Carbon Steel.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240.

SHELL GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

BRANCH GASKET: NBR per ASTM D2000 with Hydro TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194 for sleeves with Stainless Steel Flange and Low Alloy Steel Bolts and Nuts per ASTM A325 and ASTM A563 for sleeves with Carbon Steel Flange. **NOTE:** Stainless Steel hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

WASHERS: Delrin per ASTM D6778.



Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel flange with stainless steel bolts and nuts		Carbon steel flange with stainless steel bolts and nuts		
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price	
4	100	A	4.50-4.70	114-119	2	50	3490+Nominal pipe size+ Letter+Banch size+AS	\$2,193.10	3490+Nominal pipe size+ Letter+Banch size+CS	\$1,762.90	
		B	4.70-4.90	119-124				\$2,193.10		\$1,762.90	
		C	4.80-5.00	112-127				100		\$2,193.10	\$1,762.90
		D	5.10-5.30	130-135						\$2,229.40	\$1,857.40
		E	5.20-5.40	132-137						\$2,229.40	\$1,857.40
6	150	A	6.00-6.20	152-157	2	50		\$2,229.40		\$1,857.40	
		B	6.60-7.00	168-178	3	80		\$2,229.40		\$1,857.40	
		C	6.90-7.30	175-185	4	100		\$2,229.40		\$1,857.40	
		D	7.10-7.50	180-191	6	150		\$2,260.90		\$1,895.20	
8	200	A	7.90-8.30	201-211	2	50		\$2,248.10		\$1,930.00	
		B	8.60-9.05	218-230	3	80.		\$2,248.10		\$1,930.00	
		C	9.05-9.45	230-240	4	100		\$2,248.10		\$1,930.00	
		D	9.20-9.60	234-244	6	150		\$2,432.20		\$2,100.30	
					8	200		\$2,974.80		\$2,714.50	
10	250	A	9.90-10.30	251-262	2	50		\$2,590.40		\$2,158.70	
		B	10.70-11.10	272-282	3	80		\$2,590.40		\$2,158.70	
		C	11.10-11.50	282-292	4	100		\$2,590.40		\$2,158.70	
		D	11.40-11.80	290-300	6	150		\$2,613.00		\$2,212.20	
		E	11.80-12.20	300-310	8	200		\$3,427.00		\$2,727.70	
					10	250		\$5,016.10		\$3,845.30	
12	300	A	11.90-12.30	302-312	2	50		\$2,900.50		\$2,487.20	
		B	12.50-12.90	318-328	3	80		\$2,900.50		\$2,487.20	
		C	13.20-13.60	335-345	4	100		\$2,900.50		\$2,487.20	
		D	13.40-13.80	340-351	6	150		\$3,210.50		\$2,545.00	
					8	200		\$3,914.80		\$3,284.90	
		E	13.90-14.30	355-363	10	250		\$5,125.90		\$4,260.90	
					12	300		\$5,678.20		\$5,040.50	
14	350	A	15.00-15.40	381-391	2	50		\$3,156.00		\$3,055.60	
		B	15.30-15.70	389-399	3	80		\$3,156.00		\$3,055.60	
					4	100		\$3,156.00		\$3,055.60	
					6	150		\$3,733.80		\$3,145.90	
		C	15.90-16.30	404-414	8	200		\$4,673.70		\$3,481.20	
					10	250		\$5,771.90		\$4,436.50	
		D	16.40-16.80	417-427	12	300		\$6,324.20		\$5,576.20	

Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel flange with stainless steel bolts and nuts		Carbon steel flange with stainless steel bolts and nuts	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
16	400	A	17.00-17.40	432-442	2	50	3490+Nominal pipe size+Letter+Banch size+AS	\$4,098.80	3490+Nominal pipe size+Letter+Banch size+CS	\$3,059.40
						80		\$4,098.80		\$3,059.40
						3				
		B	17.40-17.80	442-452	4	100		\$4,098.80		\$3,059.40
						150		\$4,647.90		\$3,454.70
						200		\$5,051.70		\$3,894.20
		C	17.70-18.10	450-460	8	250		\$5,988.30		\$4,826.40
						300		\$6,925.00		\$6,342.80
						16				
						400		POA		POA
18	450	A	18.40-18.80	467-478	2	50		\$4,163.40		\$3,250.80
						80		\$4,163.40		\$3,250.80
						3				
		B	18.60-19.00	472-483	4	100		\$4,163.40		\$3,250.80
						150		\$4,970.90		\$3,515.90
						200		\$5,374.60		\$3,849.00
		C	19.30-19.70	490-500	8	250		\$6,311.30		\$4,528.30
						300		\$7,571.00		\$6,781.40
						12				
		D	19.80-20.20	503-513	16	400		POA		POA
						450		POA		POA
						18				
20	500	A	21.40-21.80	544-554	2	50		\$4,328.10		\$3,368.60
						80		\$4,328.10		\$3,368.60
						3				
						4		\$4,328.10		\$3,368.60
						100				
						150		\$5,132.40		\$3,633.60
		B	21.90-22.30	556-566	6	200		\$5,448.90		\$3,966.80
						250		\$6,634.30		\$4,938.50
						8				
						10		\$8,217.00		\$6,858.40
						12				
						300				
24	600	A	25.60-26.00	650-660	16	400		POA		POA
						450		POA		POA
						18				
						20				
						450				
						20				
		B	26.20-26.60	665-676	24	500		POA		POA
						600		POA		POA

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. EXAMPLE: 16" Asbestos-Cement Class 150 O.D. 18.72 with 8 inch Stainless steel Branch.

Order 3490AS -18B x 8. **Part Number:** 3490+Nominal pipe size+Letter+Banch size+AS = 349018B080AS .

For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating. 30", 36", 42", and 48" nominal size sleeves available with outlet sizes 2" through 24".

3490MJ/ 3490MJ-CS

STAINLESS STEEL TAP SLEEVE W /MECHANICAL JOINT OUTLET

MJ OUTLET: Type 304 (18-8) Stainless Steel per ASTM A743 and ANSI/AWWA C111. Or Carbon Steel. Solid One-Piece casting.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240.

SHELL GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

BRANCH GASKET: NBR per ASTM D2000 with Hydro TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194 for sleeves with Stainless Steel MJ and Low Alloy Steel Bolts and Nuts per ASTM A325 and ASTM A563 for sleeves with Carbon Steel MJ. NOTE: Stainless Steel hex nuts are furnished with fusion bonded coating to prevent seizing and galling.



Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel MJ with stainless steel bolts and nuts		Carbon steel MJ with stainless steel bolts and nuts	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
4	100	A	4.50-4.70	114-119	2	50	3490+Nominal pipe size+Letter+Banch size+MJ	\$2,502.50	3490+Nominal pipe size+Letter+Banch size+MJ-CS	\$1,839.30
		B	4.70-4.90	119-124						\$1,839.30
		C	4.80-5.00	112-127				\$2,502.50		\$1,839.30
		D	5.10-5.30	130-135						
		E	5.20-5.40	132-137				\$2,514.30		\$1,839.30
6	150	A	6.00-6.20	152-157	2	50		\$2,502.50		\$1,933.70
		B	6.60-7.00	168-178	3	80		\$2,502.50		\$1,933.70
		C	6.90-7.30	175-185	4	100		\$2,514.30		\$1,933.70
		D	7.10-7.50	180-191	6	150		\$2,714.80		\$1,981.80
8	200	A	7.90-8.30	201-211	2	50		\$2,557.40		\$2,006.40
		B	8.60-9.05	218-230	3	80		\$2,557.40		\$2,006.40
		C	9.05-9.45	230-240	4	100		\$2,569.30		\$2,006.40
		D	9.20-9.60	234-244	6	150		\$2,885.90		\$2,186.80
					8	200		\$3,481.20		\$2,835.60
10	250	A	9.90-10.30	251-262	2	50		2,899.70		\$2,235.10
		B	10.70-11.10	272-282	3	80		2,899.70		\$2,235.10
		C	11.10-11.50	282-292	4	100		2,911.60		\$2,235.10
		D	11.40-11.80	290-300	6	150		3,066.90		\$2,298.70
		E	11.80-12.20	300-310	8	200		3,933.40		\$2,848.90
12	300	E	13.90-14.30	355-363	10	250		5,682.20		\$3,997.70
					12	300				
		A	11.90-12.30	302-312	2	50		\$3,209.80		\$2,563.60
		B	12.50-12.90	318-328	3	80		\$3,209.80		\$2,563.60
		C	13.20-13.60	335-345	4	100		\$3,221.70		\$2,563.60
14	350	D	13.40-13.80	340-351	6	150		\$3,664.30		\$2,631.50
		E	13.90-14.30	355-363	8	200		\$4,421.30		\$3,406.00
					10	250		\$5,792.00		\$4,413.20
					12	300		\$6,414.50		\$5,263.10
		A	15.00-15.40	381-391	2	50		\$3,274.40		\$3,131.90
16	400	B	15.30-15.70	389-399	3	80		\$3,274.40		\$3,131.90
		C	15.90-16.30	404-414	4	100		\$3,286.20		\$3,131.90
					6	150		\$4,187.60		\$3,325.90
					8	200		\$5,180.10		\$3,602.40
		D	16.40-16.80	417-427	10	250		\$5,924.40		\$4,588.90
18	450	E	17.40-17.80	427-437	12	300		\$5,924.40		\$5,680.50

Nominal Pipe Size			Pipe OD Range		Branch Size		Stainless steel MJ with stainless steel bolts and nuts		Carbon steel MJ with stainless steel bolts and nuts	
In	MM	Letter	Inches	MM	Inches	MM	Part number	List Price	Part number	List Price
16	400	A	17.00-17.40	432-442	2	50	3490+Nominal pipe size+Letter+Branch size+MJ	\$4,441.30	3490+Nominal pipe size+Letter+Branch size+MJ-CS	\$3,231.10
					3	80		\$4,441.30		\$3,231.10
					4	100		\$4,453.20		\$3,231.10
		B	17.40-17.80	442-452	6	150		\$5,101.70		\$3,541.30
					8	200		\$5,558.10		\$4,015.40
					10	250		\$6,654.40		\$4,978.80
		C	17.70-18.10	450-460	12	300		\$7,661.30		\$6,565.40
					16	400		POA		POA
								\$4,472.70		\$3,327.10
								\$4,472.70		\$3,327.10
								\$4,484.60		\$3,327.10
18	450	A	18.40-18.80	467-478	4	100		\$4,484.60		\$3,327.10
					6	150		\$5,424.70		\$3,602.50
					8	200		\$5,962.50		\$4,051.70
		C	19.30-19.70	490-500	10	250		\$7,331.60		\$5,034.80
					12	300		\$8,307.30		\$7,004.00
					16	400		POA		POA
		D	19.80-20.20	503-513	18	450		POA		POA
								\$4,637.40		\$3,444.90
								\$4,637.40		\$3,444.90
								\$4,649.30		\$3,444.90
20	500	A	21.40-21.80	544-554	4	100		\$4,649.30		\$3,444.90
					6	150		\$5,586.20		\$3,720.20
					8	200		\$5,955.30		\$4,087.90
					10	250		\$7,517.10		\$5,090.90
					12	300		\$8,876.30		\$7,004.00
		B	21.90-22.30	556-566	16	400		POA		POA
					18	450		POA		POA
					20	500		POA		POA
								\$4,866.80		\$3,544.40
								\$4,866.80		\$3,544.40
24	600	A	25.60-26.00	650-660	4	100		\$4,878.70		\$3,544.40
					6	150		\$5,747.70		\$4,154.80
					8	200		\$6,452.70		\$4,621.00
					10	250		\$7,798.20		\$5,423.10
					12	300		\$9,599.30		\$7,808.10
		B	26.20-26.60	665-676	16	400		POA		POA
					18	450		POA		POA
					20	500		POA		POA
					24	600		POA		POA
								POA		POA

CUSTOM SIZES AVAILABLE.

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. **EXAMPLE:** 16" Asbestos-Cement Class 150 O.D. 18.72 with 8 inch Stainless Steel MJ Branch. Order 3490MJ -18B x 8. **Part Number:** 3490+Nominal pipe size+Letter+Branch size+MJ = 349018B080MJ
For Outlet Sizes 14" and above the tapping valve being used must be advised to PowerSeal in order to guarantee proper alignment recess mating. 30", 36", 42", and 48" nominal size sleeves available with outlet sizes 2" through 24".

*Manufactured under U.S. Patents 6,330,771.

3495AS

STAINLESS STEEL TAP SLEEVE W/THREADED OUTLET

(FOR COPPER, STEEL AND PVC PIPE)

OUTLET: Type 304 (18-8) Stainless steel per ASTM A276

PANEL: Type 304 (18-8) Stainless Steel per ASTM A276.

BRANCH GASKET: NBR per ASTM D2000 with Hydro Twinseal dual ro-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 & A194 or low alloy bolts and nuts per ASTM A325 and ASTM A 563.

NOTE: Stainless steel hex nuts are furnished with fusion bonded coating to prevent seizing and galling.



Nominal Pipe Size		Letter	Pipe OD Range		Part number	Outlet Size / List price	
Inches	MM		Inches	MM		3/4 NPT - 1 NPT 1 1/4 NPT - 1 1/2 NPT 2 NPT - 2 1/2 NPT	3 NPT - 4 NPT
4	100	A	4.50	114	3495+Nominal pipe size+Letter +Outlet size+Outlet code	\$1,101.90	\$1,277.70
		B	4.80	122			
6	150	A	6.63	168		\$1,195.40	\$1,365.00
		B	6.90	175			
8	200	A	8.63	219		\$1,255.50	\$1,431.30
		B	9.05	229			
10	250	A	10.75	273		\$1,323.30	\$1,556.00
		B	11.10	281			
12	300	A	12.75	323		\$1,401.30	\$1,629.40
		B	13.20	335			
14	350	A	14.59-15.08	370-383		\$1,645.00	\$1,879.80
		B	15.23-15.80	386-401			
		C	16.30-16.70	414-424			
16	400	A	17.33-17.87	440-453		\$1,717.30	\$1,948.90
		B	18.62-19.19	472-487			
18	450	A	19.41-20.01	493-508		\$1,788.60	\$2,026.80
		B	20.93-21.57	531-547			
20	500	A	21.51-22.15	546-562		\$1,870.90	\$2,109.10
		B	23.46-24.16	595-613			
24	600	A	25.71-26.41	653-670		\$2,026.80	\$2,256.00
		B	28.14-28.84	714-732			
30	750	A	31.52-32.22	800-818		\$2,195.90	\$2,430.80
36	900	A	38.10-38.75	967-984		\$2,420.80	\$2,659.10
42	1050	A	44.10-44.70	1120-1135		\$2,623.30	\$2,858.20
48	1200	A	50.40-51.00	1280-1295		\$3,350.10	\$3,582.70
54	1650	A	56.60-57.25	1437-1454		\$3,608.30	\$3,844.30

Outlet	Outlet size	Outlet code
3/4 NPT	075	TC
1 NPT	100	TE
1 1/4 NPT	125	TG
1 1/2 NPT	150	TI
2 NPT	200	TK
3 NPT	300	TP
4 NPT	400	TM

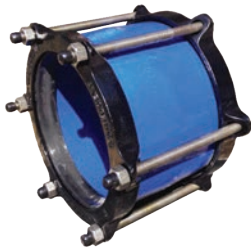
CUSTOM SIZES AVAILABLE. Other options: CC thread configurations. All 316 Stainless Steel material also an option. (Additional charges apply) **HOW TO ORDER:** Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired Outlet size. EXAMPLE: 16" Asbestos-Cement Class 150 O.D. 18.72 with 1" NPT Threaded Outlet . Order 3495AS-16B x 1 NPT. **Part Number:** 3495+Nominal pipe size+Letter+Outlet size+Outlet code = 349516B100TE



COUPLINGS



PowerSeal
PIPELINE PRODUCTS CORPORATION



3501

2" - 48" diameter all ductile iron bolted transition coupling.



3501LB

2" - 24" diameter all ductile iron long barrel transition coupling.



3501EC

2" - 48" diameter all ductile iron transition coupling with end cap.



3504

1/2" - 2" compression type screw coupling.



3506

2" - 16" diameter all ductile iron wide range bolted Powermax coupling.



3506LB

2" - 16" diameter all ductile iron wide range bolted Powermax long barrel coupling.



3506EC

2" - 16" diameter all ductile iron wide range bolted Powermax coupling with end cap.



3506AS

2" - 12" diameter all stainless steel wide range bolted Powermax coupling.



3506R

4x3" - 6x4" - 8x6" - 10x8" - 12x10" diameter ductile iron bolted wide range Powermax reducing coupling.



3520

DI transition Cutting-in Sleeve in sizes 4" to 16" which allows the connection to various pipe OD's via the use of interchangeable end glands and gaskets on the pipe coupling end.



3521

Ductile iron ranged flange coupling adapter from 4" to 12" nominal diameter.



3526

Powermax ductile iron wide range flange coupling adapter in sizes 3"-12".



3531

Ductile iron Insta-Flange adapter 2" to 12" diameters, steel or DI OD.



3532

Ductile iron Heavy Duty Insta-Flange adapter from 4" to 36" diameters, steel or DI OD.

TRANSITION COUPLING 3501



CENTER BARREL: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with transition design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F. Other materials available.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219. Type 304 (18-8) Stainless Steel per ASTM A193 and A194. Type 316 available.

GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

FINISH: Epoxy.



Nominal Pipe Size			Pipe OD Range		Approx. Weight		Barrel Length		Bolts	Part Number	List Price	Part Number w/SST N&Bs	List Price w/ SST N&Bs
In	MM		In	MM	lbs	kgs	In	MM	Qty				
2	50	A	2.35-2.63	60-67	8	4	5	125	2	350102A00000	\$129.90	350102A0SS00	\$169.30
2 1/2	65	A	2.69-2.88	68-73	10	5	5	125	2	3501025A0000	\$153.30	3501025ASS00	\$197.60
3	80	A	3.25-3.55	83-90	13	6	5	125	3	350103A00000	\$206.80	350103A0SS00	\$298.50
		B	3.70-4.00	94-102						350103B00000		350103B0SS00	
		C	3.95-4.25	100-108						350103C00000		350103C0SS00	
4	100	OD	4.00-4.13	102-105	19	8	6	150	4	3501040D0000	\$245.20	3501040DSS00	\$324.20
		AA	4.20-4.50	107-144						350104AA0000		350104AASS00	
		A	4.50-4.85	114-123						350104A00000		350104A0SS00	
		B	4.80-5.10	122-130						350104B00000		350104B0SS00	
		C	5.05-5.40	128-137						350104C00000		350104C0SS00	
6	150	OD	6.00-6.14	152-156	27	12	6	150	5	3501060D0000	\$333.70	3501060DSS00	\$432.50
		AA	6.27-6.72	159-171						350106AA0000		350106AASS00	
		A	6.62-6.95	168-177						350106A00000		350106A0SS00	
		B	6.90-7.22	175-183						350106B00000		350106B0SS00	
		C	7.19-7.45	183-189						350106C00000		350106C0SS00	
8	200	OD	8.00-8.16	203-207	38	17	6	150	6	3501080D0000	\$422.80	3501080DSS00	\$541.30
		AA	8.40-8.82	213-224						350108AA0000		350108AASS00	
		A	8.62-9.05	219-230						350108A00000		350108A0SS00	
		B	9.05-9.45	230-240						350108B00000		350108B0SS00	
		C	9.10-9.79	231-249						350108C00000		350108C0SS00	
10	250	A	10.70-11.10	272-282	52	24	6	150	7	350110A00000	\$583.30	350110A0SS00	\$743.80
		B	11.10-11.50	282-292						350110B00000		350110B0SS00	
		C	11.60-12.12	295-308						350110C00000		350110C0SS00	
12	300	A	12.75-13.20	324-335	70	32	6	150	8	350112A00000	\$701.60	350112A0SS00	\$885.00
		B	13.20-13.50	335-343						350112B00000		350112B0SS00	
		C	13.78-14.38	350-365						350112C00000		350112C0SS00	
14	350	A	15.30-15.70	389-399	91	41	6	150	9	350114A00000	\$1,215.60	350114A0SS00	\$1,429.30
		B	16.00-16.40	406-417						350114B00000		350114B0SS00	
		C	16.40-16.88	417-429						350114C00000		350114C0SS00	
16	400	A	17.15-17.40	436-442	105	48	6	150	10	350116A00000	\$1,464.50	350116A0SS00	\$1,704.90
		B	17.40-17.80	442-457						350116B00000		350116B0SS00	
		C	18.46-19.00	469-483						350116C00000		350116C0SS00	

Nominal Pipe Size			Pipe OD Range		Approx. Weight		Barrel Length		Bolts	Part Number	List Price	Part Number w/SST N&Bs	List Price w/SST N&Bs
In	MM		In	MM	lbs	kgs	In	MM	Qty				
18	450	A	18.70-19.10	475-485	128	58	7	180	12	350118A00000	\$2,134.10	350118A0SS00	\$2,422.50
		B	19.10-19.70	485-500						350118B00000		350118B0SS00	
		C	19.70-20.25	500-514						350118C00000		350118C0SS00	
20	500	A	20.80-21.35	528-542	140	64	7	180	12	350120A00000	\$2,559.40	350120A0SS00	\$2,847.80
		B	21.35-21.75	542-552						350120B00000		350120B0SS00	
		C	21.75-22.25	552-565						350120C00000		350120C0SS00	
24	600	A	25.00-25.80	635-655	230	105	10	250	14	350124A00000	\$4,353.60	350124A0SS00	\$4,747.90
		B	26.10-26.32	663-669						350124B00000		350124B0SS00	
30	750	A	31.74-32.00	806-813	280	127	10	250	14	350130A00000	\$7145.10	350130A0SS00	POA
		B	32.40-32.74	823-832						350130B00000		350130B0SS00	
36	900	AA	37.93-38.54	963-979	919	418	16	400	16	350136A00000	\$16,515.70	350136A0SS00	POA
		A	38.54-39.16	979-995						350136A00000		350136A0SS00	
		B	39.16-39.55	995-1005						350136B00000		350136B0SS00	
		C	39.55-40.05	1005-1007						350136C00000		350136C0SS00	
48	1200	AA	50.10-50.72	1273-1288	1531	696	16	400	16	350148A00000	\$20,916.00	350148A0SS00	POA
		A	50.72-51.34	1288-1304						350148A00000		350148A0SS00	
		B	51.34-51.72	1304-1314						350148B00000		350148B0SS00	
		C	51.72-52.06	1314-1322						350148C00000		350148C0SS00	

Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

Any combination of pipe OD Ranges can be paired within a nominal Pipe Size to make a transition connection. Example: To connect 4 inch Steel (4.50 OD) To 4 Inch Asbestos-cement (5.33 OD) order the 4AC coupling. The "A" Range will fit 4.50 to 4.85 pipe ODs and the "C" range fits 5.05 to 5.40 pipe ODs.

HOW TO ORDER: Specify model number, pipe size with letter code(s). **EXAMPLE:** 6" Steel O.D. 6.63 to 6" Asbestos cement O.D. 7.37 order 3501-6AC. **Part number:** 350106AC0000.

Note: The model 3501 is available in a domestic produced version. Please consult your customer service person concerning this option. Deliveries will vary.

3501LB LONG BARREL TRANSITION COUPLING

CENTER BARREL: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with transition design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F. Other materials available

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219. Type 304 (18-8) Stainless Steel per ASTM A193 and A194. Type 316 available.

GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

FINISH: Epoxy.



Nominal Pipe Size			Pipe OD Range		Approx. Weight		Barrel Length		Bolts	Part Number	List Price	Part Number w/SST N&Bs	List Price w/SST N&Bs
Inches	MM		Inches	MM	lbs	kgs	Inches	MM	Qty				
2	50	A	2.35-2.63	60-67	13	6	12	300	2	350102A000LB	\$439.50	350102A0SSLB	\$527.50
3	80	A	3.25-3.55	83-90	18	8	12	300	3	350103A000LB	\$439.50	350103A0SSLB	\$527.50
		B	3.70-4.00	94-102					3	350103B000LB		350103B0SSLB	
		C	3.95-4.25	100-108					3	350103C000LB		350103C0SSLB	

Nominal Pipe Size			Pipe OD Range		Approx. Weight		Barrel Length		Bolts	Part Number	List Price	Part Number w/SST N&Bs	List Price w/ SST N&Bs
Inches	MM		Inches	MM	lbs	kgs	Inches	MM	Qty				
4	100	OD	4.00-4.13	102-105	32	15	12	300	4	3501040D00LB	\$ 558.50	3501040DSSLB	\$ 671.10
		AA	4.20-4.50	107-144						350104AA00LB		350104AASSLB	
		A	4.50-4.85	114-123						350104A000LB		350H104A0SSLB	
		B	4.80-5.10	122-130						350104B000LB		350104B0SSLB	
		C	5.05-5.40	128-137						350104C000LB		350104C0SSLB	
6	150	OD	6.00-6.14	152-156	45	20	12	300	5	3501060D00LB	\$688.10	3501060DSSLB	\$ 828.90
		AA	6.27-6.72	159-171						350106AA00LB		350106AASSLB	
		A	6.62-6.95	168-177						350106A000LB		350106A0SSLB	
		B	6.90-7.22	175-183						350106B000LB		350106B0SSLB	
		C	7.19-7.45	183-189						350106C000LB		350106C0SSLB	
8	200	OD	8.00-8.16	203-207	56	25	12	300	6	3501080D00LB	\$879.70	3501080DSSLB	\$1,450.70
		AA	8.40-8.82	213-224						350108AA00LB		350184AASSLB	
		A	8.62-9.05	219-230						350108A000LB		350108A0SSLB	
		B	9.05-9.45	230-240						350108B000LB		350108B0SSLB	
		C	9.10-9.79	231-249						350108C000LB		350108C0SSLB	
10	250	A	10.70-11.10	272-282	87	39	12	300	7	350110A000LB	\$1,214.00	350110A0SSLB	\$1,736.80
		B	11.10-11.50	282-292						350110B000LB		350110B0SSLB	
		C	11.60-12.12	295-308						350110C000LB		350110C0SSLB	
12	300	A	12.75-13.20	324-335	122	55	12	300	8	350112A000LB	\$1,426.00	350112A0SSLB	\$1,696.50
		B	13.20-13.50	335-343						350112B000LB		350112B0SSLB	
		C	13.78-14.38	350-365						350112C000LB		350112C0SSLB	
		A	12.75-13.20	324-335	140	62	16	400		350112A000LB-16	\$1,497.10	350112A0SSLB-16	\$1,773.90
		B	13.20-13.50	335-343						350112B000LB-16		350112B0SSLB-16	
		C	13.78-14.38	350-365						350112C000LB-16		350112C0SSLB-16	
14	350	A	15.30-15.70	389-399	133	60	12	300	9	350114A000LB	\$1,887.10	350114A0SSLB	\$2,187.90
		B	16.00-16.40	406-417						350114B000LB		350114C0SSLB	
		C	16.40-16.88	417-429						350114C000LB		350114B0SSLB	
16	400	A	17.15-17.40	436-442	144	65	12	300	10	350116A000LB	\$2,245.90	350116A0SSLB	\$2,572.90
		B	17.40-17.80	442-457						350116B000LB		350116B0SSLB	
		C	18.46-19.00	469-483						350116C000LB		350116C0SSLB	
		A	17.15-17.40	436-442	180	80	16	400		350116A000LB-16	\$2,756.90	350116A0SSLB-16	\$3,214.00
		B	17.40-17.80	442-457						350116B000LB-16		350116B0SSLB-16	
		C	18.46-19.00	469-483						350116C000LB-16		350116C0SSLB-16	
18	450	A	18.70-19.10	475-485	185	84	12	300	12	350118A000LB	\$2,944.70	350118A0SSLB	\$3,332.50
		B	19.10-19.70	485-500						350118B000LB		350118B0SSLB	
		C	19.70-20.25	500-514						350118C000LB		350118C0SSLB	
20	500	A	20.80-21.35	528-542	225	102	12	300	12	350120A000LB	\$3,343.80	350120A0SSLB	\$3,731.70
		B	21.35-21.75	542-552						350120B000LB		350120B0SSLB	
		C	21.75-22.25	552-565						350120C000LB		350120C0SSLB	
24	600	A	25.00-25.80	635-655	322	146	12	300	14	350124A000LB	\$6,079.80	350124A0SSLB	\$6,671.50
		B	26.10-26.32	663-669						350124B000LB		350124B0SSLB	

Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

Any combination of pipe OD Ranges can be paired within a nominal Pipe Size to make a transition connection. Example: To connect 4 inch Steel (4.50 OD) To 4 Inch Asbestos-cement (5.33 OD) order the 4AC coupling. The “A” Range will fit 4.50 to 4.85 pipe ODs and the “C” range fits 5.05 to 5.40 pipe ODs.

HOW TO ORDER: Specify model number, pipe size with letter code(s). **EXAMPLE:** 6” Steel O.D. 6.63 to 6” Asbestos cement O.D. 7.37 order 3501LB-6AC. **Part number:** 350106AC00LB.

3504 GALVANIZED COMPRESSION COUPLING

CENTER BARREL: Carbon Steel per AISI C1010-15.

GLANDS: Malleable Iron per ASTM A47.

GASKET: NBR per ASTM D2000 suitable for oil, mild acids, water, and salt media with a temperature range of -40° F to +248° F.

FINISH: Galvanized.



Nominal Pipe Size		Pipe OD Range		Box Weight		Body Length		Box	Part Number	List Price
Inches	MM	Inches	MM	lbs.	kgs	Inches	MM	Qty.		
1/2	15	0.84	21	19	9	4	102	25	350400500000	\$55.30
3/4	20	1.05	27	19	9	4.4	111	15	350400750000	\$59.30
1	25	1.32	34	16	7	4.5	114	10	350401000000	\$68.30
1 1/4	32	1.66	42	12	5	4.5	114	6	350401250000	\$83.80
1 1/2	40	1.90	48	15	7	5	127	6	350401500000	\$95.10
2	50	2.38	60	21	10	5.4	137	6	350402000000	\$120.00

HOW TO ORDER: Specify Model Number and Pipe Size.

3506 POWERMAX COUPLING

One range fits all pipe ODs IPS PVC to Rough Barrel AC

CENTER BARREL: Ductile Iron per ASTM A536 and AWWA C219.

GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with conical design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F. Other materials available.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219.

Type 304 (18-8) Stainless Steel per ASTM A193 and A194. Type 316 available.

FINISH: Epoxy.



Nominal Pipe Size			Pipe OD Range		Standard Weight		Standard Barrel Length		Standard Barrel Part Number	List Price	Standard Barrel Part Number w/SST N&Bs	List Price w/ SST N&Bs
In	MM	Letter	Inches	MM	lbs	kgs	Inches	MM				
2	50	A	2.30-2.90	58-74	16	8	5	125	350602A00000	\$162.80	350602A0SS00	\$218.40
3	80	A	3.40-4.20	86-107	21	10	5	125	350603A00000	\$258.20	350603A0SS00	\$331.20
4*	100	A	4.20-5.33	107-135	27	13	6	150	350604A00000	\$ 333.10	350604A0SS00	\$ 431.20
6*	150	A	6.25-7.45	159-189	36	17	6	150	350606A00000	\$473.60	350606A0SS00	\$596.40
8*	200	A	8.40-9.79	214-249	60	28	10	250	350608A00000	\$ 675.90	350608A0SS00	\$876.60
10	250	A	10.70-12.12	272-308	75	34	10	250	350610A00000	\$ 814.20	350610A0SS00	\$1,050.60
12	300	A	12.75-14.38	324-365	130	59	10	250	350612A00000	\$ 1,017.00	350612A0SS00	\$1,226.80
14	350	A	15.25-16.90	387-429	148	67	12	300	350614A00000	\$2,557.90	350614A0SS00	\$3,580.00
16	400	A	16.00-17.80	406-452	180	82	12	300	350616A00000	\$4,263.90	350616A0SS00	\$5,965.00
		B	17.40-19.00	442-483	180	82	12	300	350616B00000		350616B0SS00	

Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

*Pipe diameters less than IPS/STEEL rated up to 50 psi work pressure.

HOW TO ORDER: Specify model number, pipe size with letter code(s) if applicable. **EXAMPLE:** 6" Steel O.D. 6.63 to 6" Asbestos cement O.D. 7.37. Order 3506-6A. **Part number:** 350606A00000.

LONG BARREL POWERMAX COUPLING

3506LB

One range fits all pipe ODs IPS PVC to Rough Barrel AC

CENTER BARREL: Ductile Iron per ASTM A536 and AWWA C219.

GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with conical design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F. Other materials available.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219.

Type 304 (18-8) Stainless Steel per ASTM A193 and A194. Type 316 available.

FINISH: Epoxy.



Made in U.S.A

MEETS
AWWA
C219



C

Nominal Pipe Size			Pipe OD Range		Long Barrel Weight		Long Barrel Length		Long Barrel Part Number	List Price	Long Barrel Part Number w/SST N&Bs	List Price w/SST N&Bs
Inches	MM		Inches	MM	lbs	kgs	Inches	MM				
2	50	A	2.30-2.90	58-74	22	10	12	300	350602A000LB	\$262.60	350602A0SSLB	\$323.50
3	80	A	3.40-4.20	86-107	33	15	12	300	350603A000LB	\$416.50	350603A0SSLB	\$496.80
4*	100	A	4.20-5.33	107-135	37	17	12	300	350604A000LB	\$500.40	350604A0SSLB	\$628.00
6*	150	A	6.25-7.45	159-189	50	23	12	300	350606A000LB	\$658.10	350606A0SSLB	\$817.60
8*	200	A	8.40-9.79	214-249	73	33	12	300	350608A000LB	\$771.80	350608A0SSLB	\$963.20
10	250	A	10.70-12.12	272-308	77	35	12	300	350610A000LB	\$933.90	350610A0SSLB	\$1,125.30
12	300	A	12.75-14.38	324-365	113	51	12	300	350612A000LB	\$1,087.80	350612A0SSLB	\$1,357.80



ALL SS POWERMAX COUPLING

3506AS

CENTER BARREL: Type 304 (18-8) Stainless Steel per ASTM A240.

GLANDS: Type 304 (18-8) Stainless Steel per ASTM A743.

GASKET: SBR per ASTM D2000 with conical design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F. Other materials available.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

Type 316 available.

NOTE: Hex nuts are furnished to prevent seizing and galling.



Made in U.S.A

MEETS
AWWA
C219



C

Nominal Pipe Size			Pipe OD Range		Approx. Weight		Barrel Length		Bolts Qty	Part Number	List Price
Inches	MM		Inches	MM	lbs	kgs	Inches	MM			
2	50	A	2.30-2.90	58-74	11	5	5	125	2	350602A000AS	\$528.80
3	80	A	3.40-4.20	86-107	14	6.5	6.5	165	3	350603A000AS	\$581.20
4*	100	A	4.20-5.33	112-135	18	8.5	6	150	4	350604A000AS	\$719.50
6*	150	A	6.25-7.45	166-189	24	11	6	150	5	350606A000AS	\$979.50
8*	200	A	8.40-9.79	217-249	40	16.5	10	250	6	350608A000AS	\$1,454.00
10	250	A	10.70-12.12	272-293	46	21	10	250	7	350610A000AS	\$2,107.40
12	300	A	12.75-14.38	324-365	56	25.5	10	250	8	350612A000AS	\$2,463.80

Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained. *Pipe diameters less than IPS/STEEL rated up to 50 psi work pressure. **HOW TO ORDER:** Specify model number, pipe size with letter code(s) if applicable. **EXAMPLE:** 6" Steel O.D. 6.63 to 6" Asbestos cement O.D. 7.37 order 3506AS-6A. **Part number:** 350606A000AS.

3506R

POWERMAX REDUCING COUPLING

CENTER BARREL: Ductile Iron per ASTM A536 and AWWA C219.

GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with conical design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219./Type 304 (18-8) Stainless Steel per ASTM A193 and A194 Type 316 available.

FINISH: Epoxy.



Nominal Pipe Size		Pipe OD Ranges Other End		Pipe OD Ranges Other End		Part Number	List Price	Part Number	List Price w/SST N&Bs	Weight		Barrel Length	
Inches	MM	Inches	MM	Inches	MM					lbs	kgs	Inches	MM
4x3	100x75	4.20-5.33	107-135	3.40-4.20	86-107	35060400300R	\$342.50	350604003SSR	\$416.50	40	18	12	300
6x4	150x100	6.25-7.45	159-789	4.20-5.33	107-135	35060600400R	\$563.00	350606004SSR	\$663.60	50	23	12	300
8x6	200x150	8.40-9.79	214-249	6.25-7.45	159-789	35060800600R	\$721.00	350608006SSR	\$857.60	64	29	12	300
10x8	250x200	10.70-12.12	272-308	8.40-9.79	214-249	3506100800R	\$1,017.20	350610008SSR	\$1,202.60	98	45	16	400
12x10	300x250	12.75-14.38	324-365	10.70-12.12	272-308	35061201000R	\$1,369.00	350612010SSR	\$1,602.30	134	61	16	400

Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained. *Pipe diameters less than IPS/STEEL rated up to 50 psi work pressure.

HOW TO ORDER: Specify model number, pipe sizes. **EXAMPLE:** 8" Asbestos cement OD 9.37 to 6" C900 OD 6.90, order 3506R-8x6. **Part number:** 35060800600R.

TRANSITION CUTTING-IN SLEEVE

3520

COUPLINGS

CUT IN SLEEVE BODY: Ductile Iron per ASTM A536 and AWWA C219.

GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with transition design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219. Type 316 available.

ANCHOR STUDS: Type 304 (18-8) Stainless Steel. (Optional joint restraint).

FINISH: Epoxy.



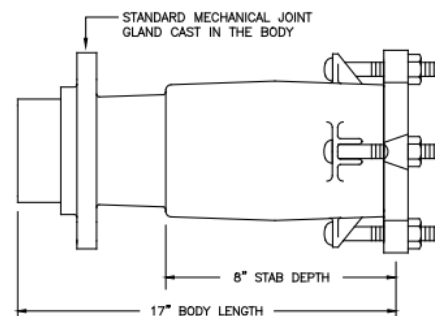
Nominal Pipe Size		Pipe OD Range		Approx. Weight		Barrel Length		Standard Unit Part Number	List Price	Anchor Studs Part Number	List Price Anchor studs	Standard Unit Part Number w/SST N&Bs	List Price w/SST N&Bs
Inches	MM	Inches	MM	lbs	kgs	Inches	MM						
4	100	OD	4.00-4.13	102-105	46	21	17	432	1,053.50	3520040D0000	1,186.90	3520040DSS00	1,337.20
		AA	4.20-4.50	107-144						352004AA0000		352004AASS00	
		A	4.50-4.85	114-123						352004A00000		350103A0SS00	
		B	4.80-5.10	122-130						352004B00000		350103B0SS00	
		C	5.05-5.40	128-137						352004C00000		350103C0SS00	
6	150	OD	6.00-6.14	152-156	72	33	17	432	1,285.20	3520060D0000	1,433.10	3520060DSS00	1,598.10
		AA	6.27-6.72	159-171						352006AA0000		352006AASS00	
		A	6.62-6.95	168-177						352006A00000		352006A0SS00	
		B	6.90-7.22	175-183						352006B00000		352006B0SS00	
		C	7.19-7.45	183-189						352006C00000		352006C0SS00	
8	200	OD	8.00-8.16	203-207	92	42	17	432	1,392.60	3520080D0000	1,540.30	3520080DSS00	1,703.70
		AA	8.40-8.82	213-224						352008AA0000		352008AASS00	
		A	8.62-9.05	219-230						352008A00000		352008A0SS00	
		B	9.05-9.45	230-240						352008B00000		352008B0SS00	
		C	9.10-9.79	231-249						352008C00000		352008C0SS00	
10	250	A	10.70-11.10	272-282	126	57	17	432	2,000.50	352010A00000	2,182.20	352010A0SS00	2,380.60
		B	11.10-11.50	282-292						352010B00000		352010B0SS00	
		C	11.60-12.12	295-308						352010C00000		352010C0SS00	
12	300	A	12.75-13.20	324-335	160	73	17	432	2,806.30	352012A00000	3,077.20	352012A0SS00	3,374.30
		B	13.20-13.50	335-343						352012B00000		352012B0SS00	
		C	13.78-14.38	350-365						352012C00000		352012C0SS00	
16	400	A	17.15-17.40	436-442	225	102	17	432	3,118.10	352016A00000	3,419.20	352016A0SS00	3,749.50
		B	17.40-17.80	442-452						352016B00000		352016B0SS00	
		C	18.46-19.00	469-483						352016C00000		352016C0SS00	

The Model 3520's Gland and Gasket are part of the Transition Coupling System and can be interchanged with other PowerSeal Cast Coupling Fittings. **INSTALLATION NOTE:** Cut and remove a section of the existing pipeline equal to the overall (Face-to-Face) length of the fitting or valve to be installed, plus ten (10) inches.

Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code. **EXAMPLE:** 6" MJ Valve to 6" Cast Iron O.D. 7.10. Order 3520 - 6B. **Part Number:** 352006B00000.

NOTE: Optional pipe stops and anchor studs (2) are available and unless otherwise requested will be located at the center of the body casting 180° apart.



3521

TRANSITION FLANGED COUPLING ADAPTER

FLANGE ADAPTER BODY: Ductile Iron per ASTM A536 and AWWA C219.

END GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with transition design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F.

BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219./ Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

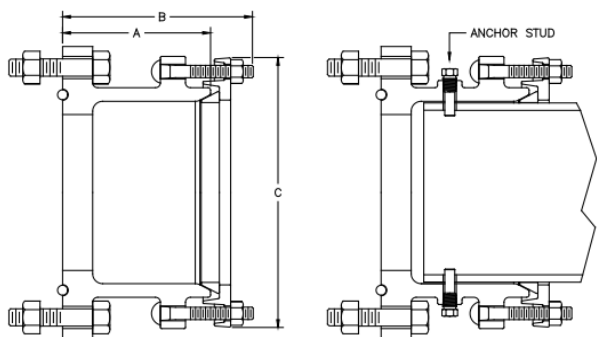
ANCHOR STUDS: Type 304 (18-8) Stainless Steel. (Optional joint restraint).

Type 316 available.

FINISH: Epoxy.



Nominal Pipe Size			Pipe OD Range		Body Length Dim - A		Overall Length Dim - B		Gland OD Dim - C		Approx. Weight		Flanged Adapter List Prices					
In	MM		Inches	MM	Inches	MM	In	MM	In	MM	lbs.	kgs	Part Number Std. Unit	List Price Std. Unit	Part Number Anchor Studs	List Price Anchor Studs	Part Number w/ SST N&Bs	List Price w/ SST N&Bs
4	100	OD	4.00-4.13	102-105	3.0	76	6.5	165	8.8	224	24	11	3521040D0000	\$490.60	3521040D000AS	\$629.10	3521040DSS00	\$617.30
		AA	4.20-4.50	107-144									352104AA0000		352104AA000AS		352104AASS00	
		A	4.50-4.85	114-123									352104A00000		352104A0000AS		352104A0SS00	
		B	4.80-5.10	122-130									352104B00000		352104B0000AS		352104B0SS00	
		C	5.05-5.40	128-137									352104C00000		352104C0000AS		352104C0SS00	
6	150	OD	6.00-6.14	152-156	4.5	114	7.1	181	10.9	227	34	15	3521060D0000	\$625.80	3521060D000AS	\$779.30	3521060DSS00	\$824.00
		AA	6.27-6.72	159-171									352106AA0000		352106AA000AS		352106AASS00	
		A	6.62-6.95	168-177									352106A00000		352106A0000AS		352106A0SS00	
		B	6.90-7.22	175-183									352106B00000		352106B0000AS		352106B0SS00	
		C	7.19-7.45	183-189									352106C00000		352106C0000AS		352106C0SS00	
8	200	OD	8.00-8.16	203-207	4.5	114	7.1	181	13.6	344	47	21	3521080D0000	\$860.20	3521080D000AS	\$1,000.00	3521080DSS00	\$1,058.30
		AA	8.40-8.82	213-224									352108AA0000		352108AA000AS		352108AASS00	
		A	8.62-9.05	219-230									352108A00000		352108A0000AS		352108A0SS00	
		B	9.05-9.45	230-240									352108B00000		352108B0000AS		352108B0SS00	
		C	9.10-9.79	231-249									352108C00000		352108C0000AS		352108C0SS00	
10	250	A	10.70-11.10	272-282	4.5	114	7.1	181	16.2	411	68	31	352110A00000	\$1,557.40	352110A0000AS	\$1,741.60	352110A0SS00	\$2,131.90
		B	11.10-11.50	282-292									352110B00000		352110B0000AS		352110B0SS00	
		C	11.60-12.12	295-308									352110C00000		352110C0000AS		352110C0SS00	
12	300	A	12.75-13.20	324-335	4.5	114	7.1	181	18.6	472	91	41	352112A00000	\$1,722.90	352112A0000AS	\$2,009.40	352112A0SS00	\$2,999.90
		B	13.20-13.50	335-343									352112B00000		352112B0000AS		352112B0SS00	
		C	13.78-14.38	350-365									352112C00000		352112C0000AS		352112C0SS00	



Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code. **EXAMPLE:** 6" Flanged Valve to 6" Cast Iron O.D. 7.10. Order 3521 - 6B. **Part Number:** 352106B00000.



POWERMAX FLANGED COUPLING ADAPTER

3526

FLANGE ADAPTER BODY: Ductile Iron per ASTM A536 and AWWA C219.

END GLANDS: Ductile Iron per ASTM A536 and AWWA C219.

GASKET: SBR per ASTM D2000 with conical design produced from 100% new rubber to ensure performance under varying pressures with superior storage characteristics per AWWA C219. Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F.

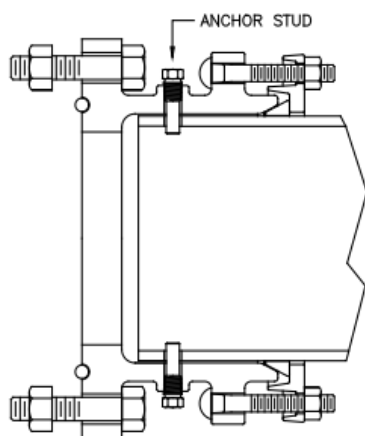
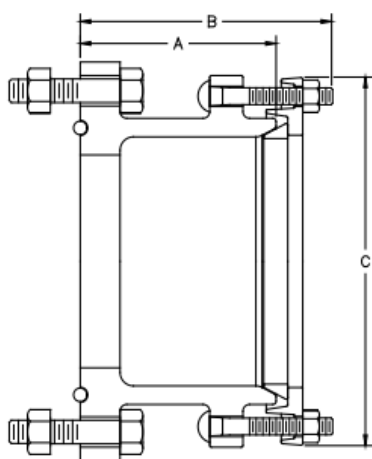
BOLTS & NUTS: Low Alloy Steel per ASTM A325, ASTM A563, and AWWA C219./ Type 304 (18-8) Stainless Steel per ASTM A193 and A194. Type 316 available.

ANCHOR STUDS: Type 304 (18-8) Stainless Steel. (Optional joint restraint).

FINISH: Epoxy.



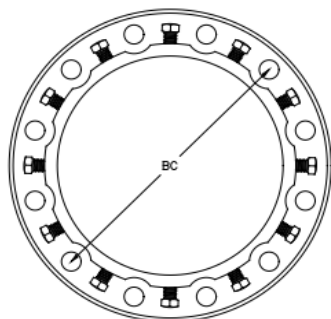
Nominal Pipe Size		Pipe OD Range		Body Length Dim - A		Overall Length Dim - B		Gland OD Dim - C		Approx. Weight		Flanged Adapter List Price					
In	MM	Inches	MM	In	MM	In	MM	In	MM	lbs.	kgs	Part Number Std. Unit	List Price Std. Unit	Part Number Anchor Studs	List Price Anchor Studs	Part Number w/ SST N&Bs	List Price w/ SST N&Bs
3	80	3.40-4.20	86-107	6.00	152	8.0	200	8.8	224	23	10.72	352603A00000	\$391.60	352603A000AS	\$523.40	352603A0SS00	\$659.80
4	100	4.20-5.33	107-135	6.28	160	8.8	223	9.94	252	25.2	11	352604A00000	\$599.20	352604A000AS	\$731.00	352604A0SS00	\$921.40
6	150	6.25-7.45	159-189	6.28	160	8.8	223	12.8	325	36	16.3	352606A00000	\$797.10	352606A000AS	\$928.90	352606A0SS00	\$1,171.00
8	200	8.40-9.79	214-249	5.65	143	8.2	208	14.44	367	45	20.45	352608A00000	\$1,009.20	352608A000AS	\$1,141.00	352608A0SS00	\$1,438.40
10	250	10.70-12.12	272-308	10	254	12.5	317	16.85	428	72	32.72	352610A00000	\$2,104.30	352610A000AS	\$2,284.50	352610A0SS00	\$2,498.70
12	300	12.75-14.38	324-365	10	254	12.5	317	20.58	523	102.7	46	352612A00000	\$2,407.60	352612A000AS	\$2,587.70	352612A0SS00	\$3,262.20



Note: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

Pipe diameters less than IPS/STEEL rated up to 50 psi work pressure.

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code. **EXAMPLE:** 6" Flanged Valve to 6" Cast Iron O.D. 7.10. Order 3526 - 6. **Part Number:** 352606A00000.



3531 INSTA - FLANGE ADAPTER (LIGHT DUTY)

BODY CASTING: Ductile Iron per ASTM A536.

SET SCREWS: AISI 4140 Heat treated steel.

GASKET: SBR mechanical joint design per ASTM D2000.

Suitable for mild acids, water and salt media with a temperature range of -40° to +200° F.

FINISH: Epoxy.

FLANGE DRILLING: ANSI B16.1 125# / ANSI B16.5 150#.



Flange Size (125# Flange)			Type of Pipe	Pipe OD Range		Flange OD Dim - A		Body Length Dim - B		Bolt Circle Dim - C		Set Screws		Working Pressure	Approx. Weight		Part Number	List Price
Inches	MM			Inches	MM	Inches	MM	Inches	MM	Inches	MM	Qty.	size		lbs.	kgs		
2	50	A	Steel	2.38	60	6	152	1.8	46	4.8	122	2	1/2	200	4.8	2.2	35310200000S	\$69.00
		B	Ductile Iron	2.50	64												35310200000C	
3	75	A	Steel	3.50	89	7.5	191	1.8	46	6	152	4	1/2	200	6	2.7	35310300000S	\$83.90
		B	Ductile Iron	3.80	101												35310300000C	
4	100	A	Steel	4.50	114	9.0	229	1.8	46	7.5	191	4	1/2	200	7.4	3.4	35310400000S	\$113.50
		B	Ductile Iron	4.80	122												35310400000C	
6	150	A	Steel	6.63	168	11.0	279	1.8	46	9.5	241	8	1/2	200	10	4.5	35310600000S	\$140.30
		B	Ductile Iron	6.90	101												35310600000C	
8	200	A	Steel	8.63	219	13.5	343	2.3	57	11.8	298	8	5/8	200	17	7.7	35310800000S	\$166.90
		B	Ductile Iron	9.05	230												35310800000C	
10	250	A	Steel	10.75	282	16.0	406	2.3	57	14.3	362	12	5/8	175	29	13	35311000000S	\$304.80
		B	Ductile Iron	11.10	101												35311000000C	
12	300	A	Steel	12.75	324	19.0	483	2.3	57	17.0	432	12	5/8	175	39.6	18	35311200000S	\$357.10
		B	Ductile Iron	13.20	335												35311200000C	

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code. **EXAMPLE:** 6" Flanged Valve to 6" Ductile Iron O.D. 6.90. Order 3531 - 6B. **Part Number:** 35310600000C .



INSTA-FLANGE ADAPTER (HEAVY DUTY) 3532

BODY CASTING: Ductile Iron per ASTM A536.

SET SCREWS: AISI 4140 Heat Treated Steel.

GASKET: SBR Mechanical Joint design per ASTM D2000. Suitable for mild acids, water, and salt.

FINISH: Epoxy.

FLANGE DRILLING: ANSI B16.1 125# / ANSI B16.5 150#.



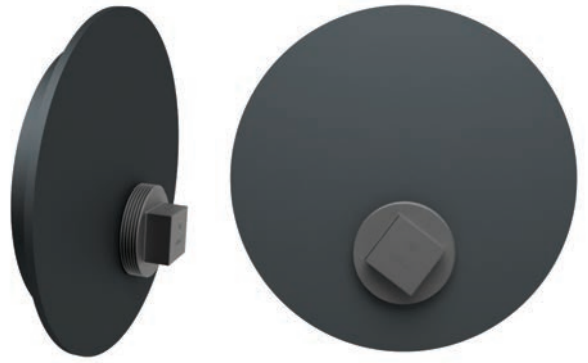
Made in U.S.A

Flange Size (125# Flange)			Type of Pipe	Pipe OD Range		Flange OD Dim - A		Body Length Dim - B		Bolt Circle- Dim - C		Set Screws		Working Pressure	Approx. Weight		Part Number	List Price
Inches	MM			Inches	MM	Inches	MM	Inches	MM	Inches	MM	Qty.	size		lbs.	kgs		
4	100	A	Steel	4.50	114	9.0	229	2.1	53.3	7.5	191	8	1/2	250	10	5	35320400000S	\$168.50
		B	Ductile Iron	4.80	122												35320400000C	
6	150	A	Steel	6.63	168	11.0	279	2.1	53.3	9.5	241	8	5/8	250	19	9	35320600000S	\$181.40
		B	Ductile Iron	6.90	175												35320600000C	
8	200	A	Steel	8.63	219	13.5	343	2.1	53.3	11.8	298	8	5/8	250	24	11	35320800000S	\$212.10
		B	Ductile Iron	9.05	230												35320800000C	
10	250	A	Steel	10.75	273	16.0	406	2.1	53.3	14.3	363	12	5/8	250	28	13	35321000000S	\$454.80
		B	Ductile Iron	11.10	282												35321000000C	
12	300	A	Steel	12.75	324	19.0	483	2.2	55.9	17.0	432	12	5/8	250	47	21	35321200000S	\$530.00
		B	Ductile Iron	13.20	335												35321200000C	
14	350	A	Steel	14.00	356	21.0	533	2.6	66	18.8	478	12	5/8	150	66	30	35321400000S	\$624.70
		B	Ductile Iron	15.30	389												35321400000C	
16	400	A	Steel	16.00	406	23.5	597	2.7	68.6	21.3	541	16	5/8	150	69	31	35321600000S	\$830.60
		B	Ductile Iron	17.40	442												35321600000C	
18	450	A	Steel	18.00	457	25.0	635	2.8	71.1	22.8	579	16	3/4	150	76	34	35321800000S	\$1,107.60
		B	Ductile Iron	19.50	495												35321800000C	
20	500	A	Steel	20.00	508	27.5	699	2.9	73.7	25.0	635	20	3/4	150	84	38	35322000000S	\$1,476.90
		B	Ductile Iron	21.60	549												35322000000C	
24	600	A	Steel	24.00	610	32.0	813	3.1	78.7	29.5	749	20	3/4	150	114	52	35322400000S	\$1,969.20
		B	Ductile Iron	25.80	655												35322400000C	
30	750	A	Steel	30.00	762	38.8	986	4.0	101.6	36.0	914	28	3/4	100	196	89	35323000000S	\$2,625.50
		B	Ductile Iron	32.00	813												35323000000C	
36	900	A	Steel	36.00	914	46.0	1168	4.5	114.3	42.3	1074	32	3/4	100	282	128	35323600000S	\$4,635.20
		B	Ductile Iron	38.30	973												35323600000C	

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code. **EXAMPLE:** 6" Flanged Valve to 6" Ductile Iron O.D. 6.90. Order 3531 - 6B. **Part Number:** 35320600000C .

COUPLING END CAP

END CAP: Ductile Iron per ASTM A536 and AWWA C219



COUPLING END CAP ADD-ON LIST PRICES

Description	Model Number	Size	Part Number	List Price
End cap with 2" NPT Plug	3501	2"	V3506E02	\$ 121.10
		2.5"	V3506E02	\$ 121.90
		3"	V3506E03	\$ 122.70
		4"	V3506E04	\$ 57.50
		6"	V3506E06	\$ 65.40
		8"	V3506E08	\$ 125.70
		10"	V3506E10	\$ 135.90
		12"	V3506E12	\$ 182.50
		14"	V3506E14	\$ 324.10
		16"	V3506E16	\$ 371.70

NOTE: Protection against possible pull out of pipe ends is not provided with cast couplings unless pipe is restrained.

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code(s). **EXAMPLE:** To connect an end cap coupling to a plain end piece of pipe with an O.D. of 4.80 order 3501EC-4B Part Number: 350104B000EC





PowerSeal
PIPELINE PRODUCTS CORPORATION

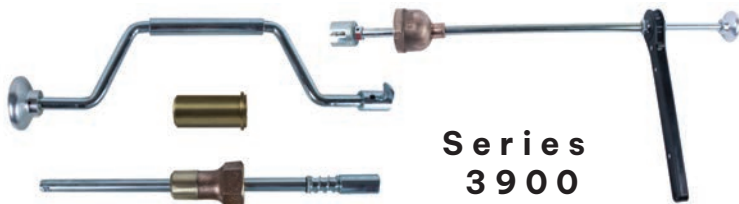
SPECIALTIES



WWW.POWERSEAL.COM



SPECIALTIES



Series 3900

Complete units for IPS thin wall plastic pipe.



Series 4900

Complete units for plastic sewer pipe "Y" connections.



Series 7900

Complete units for asbestos cement (A/C) pipe.



Series 5900

Combination units for IPS thin wall plastic pipe only.



Series 9900

Combo complete units for C900 thick wall plastic pipe.



Series 9000

Complete units for C900 thick wall plastic pipe.

5000

Valve box aligner



4860

Polyethylene casing chock.



4890

Polyethylene casing chock.



4810

Stainless steel or Carbon steel Casing chock.



OD Tape

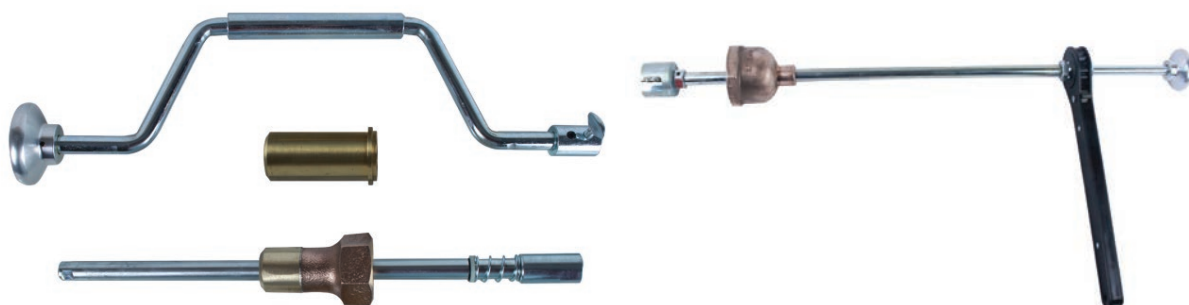
Available to measure up to 24" and 36".



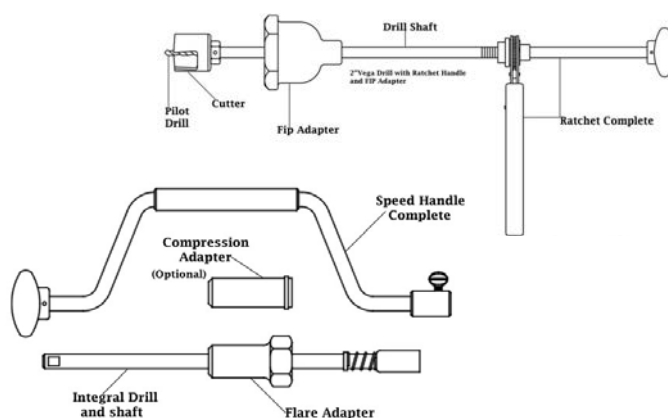
Ratchet set

Ratchet sets with deep sockets.

3900

COMPLETE UNITS FOR IPS
THIN WALL PLASTIC PIPE

*Complete units consist of Drill, Drive Mechanism, and type of adapter specified.*The Vega Drill Speed Handle Drive Mechanism is available only on 3/4" & 1" units. *The 1 1/2" & 2" units are furnished with Female Iron Pipe (FIP) threaded Adapters unless otherwise specified.



Model Number	Size		Drive Mechanism	Catalog Number			List Price
				Flare Adapter	Compression Adapters		
	Inches	MM			IPS	CTS	
3975S	3/4	20	Speed Handle	3975S00	3975S01	3975S02	\$ 377.00
3975R	3/4	20	Ratchet Handle	3975R00	3975R01	3975R02	\$ 640.00
3901S	1	25	Speed Handle	3901S00	3901S01	3901S02	\$ 405.80
3901R	1	25	Ratchet Handle	3901R00	3901R01	3901R02	\$ 668.60
3915R	1 1/2	40	Ratchet Handle	3915R00	3915R01	3915R02	\$ 900.70
3902R	2	50	Ratchet Handle	3902R00	3902R01	3902R02	\$ 876.70

HOW TO ORDER: Include Model Number and two-digit item code ending which specifies the type of adapter desired. **Example:** To order a 3/4" unit w/Speed Handle and Flare Adapter, specify **Part Number:** 3975S00. To order a 1" unit w/ Ratchet and CTS Compression Adapter, specify Part Number: 3901R02.

NOTE: See Series 9000 for Larger Diameter Drills. Model 3902R without a two digit adapter code behind it will be supplied with a 2" FIP adapter (3902F). For 3/4" and 1" sizes Female Iron Pipe (FIP) or Male Iron Pipe (MIP) thread Flare bushing available. These bushings work in conjunction with the standard flare adapter, converting them from a flared copper thread to iron pipe thread. See parts page in adapters section.

4900

COMPLETE UNITS FOR PLASTIC SEWER PIPE “Y” CONNECTIONS

*Complete units consist of Sewer Cutter, Ratchet, Shaft, and Adapter.*The Sewer Cutter is an elongated hole saw for tapping PVC sewer pipe at a 45° angle.

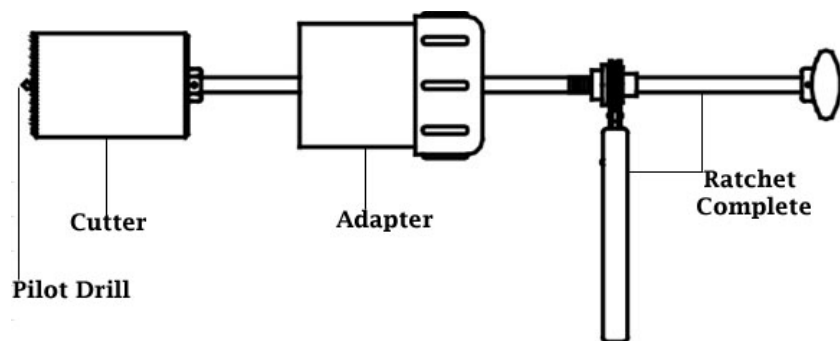


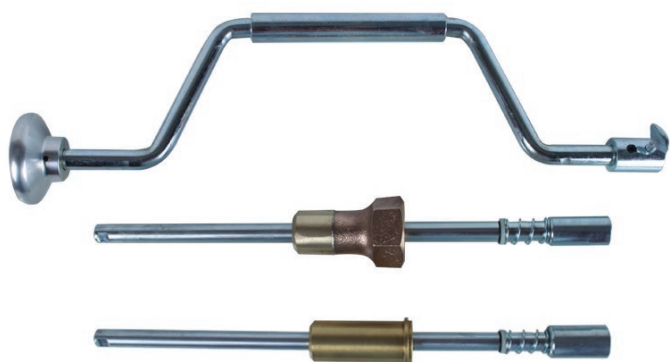
4" SEWER VEGA DRILL WITH RATCHET HANDLE AND GUIDE ADAPTER.

Catalog Number	Size		Drive Mechanism	List Price
	Inches	MM		
4904R	4	100	Ratchet Handle	\$ 800.60
4906R	6	150	Ratchet Handle	\$ 1,201.00

HOW TO ORDER: Include Part Number.

Example: To order a 4" unit w/Ratchet Handle, specify **Part Number:** 4904R.





5900

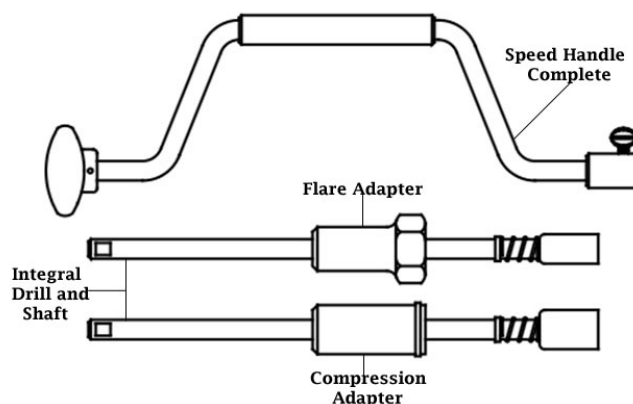
COMBINATION UNITS FOR IPS THIN WALL PLASTIC PIPE ONLY

3/4" and 1" Combination Vega Drills with Speed Handle, 3/4" Flare Adapter and 1" Compression Adapter.

Model Number	Size		Drive Mechanism	Catalog Number			List Price
				Flare Adapter	Compression Adapters		
	Inches	MM			IPS	CTS	
5901S	3/4" & 1"	20 & 25	Speed Handle	5901S00	5901S01	5901S02	\$ 621.70
5901R	3/4" & 1"	20 & 25	Ratchet Handle	5901R00	5901R01	5901R02	\$ 863.90
5902R	3/4", 1", 1 1/2" & 2"	20,25,40 & 50	Ratchet Handle	5902R00	5902R01	5902R02	\$ 1,557.60

HOW TO ORDER: Specify Model Number and two-digit item code ending which specifies the type of adapter desired. **Example:** To order a 3/4" and 1" combination unit with Ratchet Handle and Flare Adapters, specify **Part Number:** 5901R00.

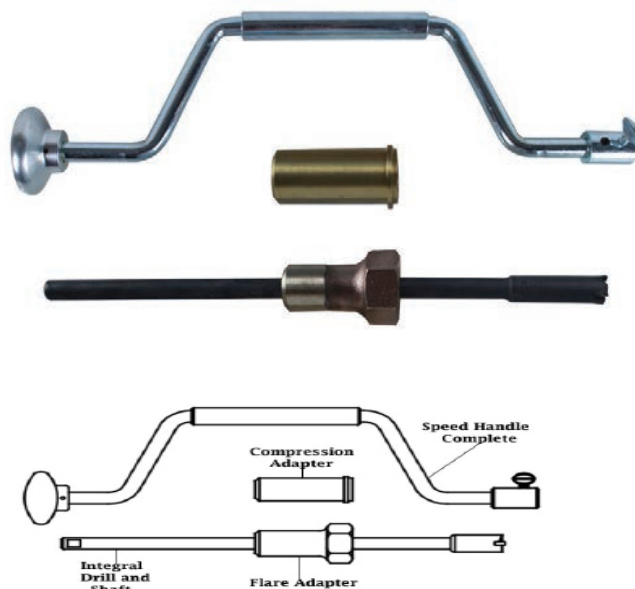
NOTE: For 3/4" and 1" sizes Female Iron Pipe (FIP) or Male Iron Pipe (MIP) thread Flare bushing available. These bushings work in conjunction with the standard flare adapter, converting them from a flared copper thread to iron pipe thread. See parts page in adapters section. Please advise customer service when requiring a 2" FIP adapter on the Model 5902R.



7900

COMPLETE UNITS FOR ASBESTOS CEMENT (A/C) PIPE

*Complete units consist of Drill, Drive Mechanism, and type of adapter specified. *The Vega Drill Speed Handle Drive Mechanism is available only on 3/4" & 1" units. *The 1 1/2" & 2" units are furnished with Female Iron Pipe (FIP) threaded Adapters unless otherwise specified. *3" thru 8" are furnished with "Pack-Off" plate style adapters that fit on both flanged and MJ fittings. *3/4" and 1" Drive Mechanisms are interchangeable. *1 1/2" thru 4" Drive Mechanisms are interchangeable. *6" & 8" Drive Mechanisms are interchangeable. *The 7900 Series Vega Drills are furnished with Carbide Tips for tapping A/C pipe. 3/4" A/C Vega Drill with Speed Handle and Flare Adapter. (Optional Compression Adapter also shown.)



Model Number	Size		Drive Mechanism	Catalog Number			List Price
				Flare Adapter	Compression Adapters		
	Inches	MM			IPS	CTS	
7975S	3/4	20	Speed Handle	7975S00	7975S01	7975S02	\$ 541.70
7975R	3/4	20	Ratchet Handle	7975R00	7975R01	7975R02	\$ 780.90
7901S	1	25	Speed Handle	7901S00	7901S01	7901S02	\$ 586.80
7901R	1	25	Ratchet Handle	7901R00	7901R01	7901R02	\$ 825.90
7915R	1 1/2	40	Ratchet Handle	7915R00	7915R01	7915R02	\$ 1,099.20
7902R	2	50	Ratchet Handle	7902R00	7902R01	7902R02	\$ 1,085.80
7903R	3	80	Ratchet Handle	-	-	-	\$ 1,326.50
7904R	4	100	Ratchet Handle	-	-	-	\$ 1,632.90
7906R	6	150	Ratchet Handle	-	-	-	\$ 2,623.90
7908R	8	200	Ratchet Handle	-	-	-	\$ 3,374.50

HOW TO ORDER: Specify Model Number and two-digit item code ending which specifies the type of adapter desired. Example: To order a 3/4" unit with Ratchet Handle and Flare Adapters, specify **Part Number:** 7975R00.

NOTE: For 3/4" and 1" sizes Female Iron Pipe (FIP) or Male Iron Pipe (MIP) thread Flare bushing available. These bushings work in conjunction with the standard flare adapter, converting them from a flared copper thread to iron pipe thread. See parts page in adapters section.

9000

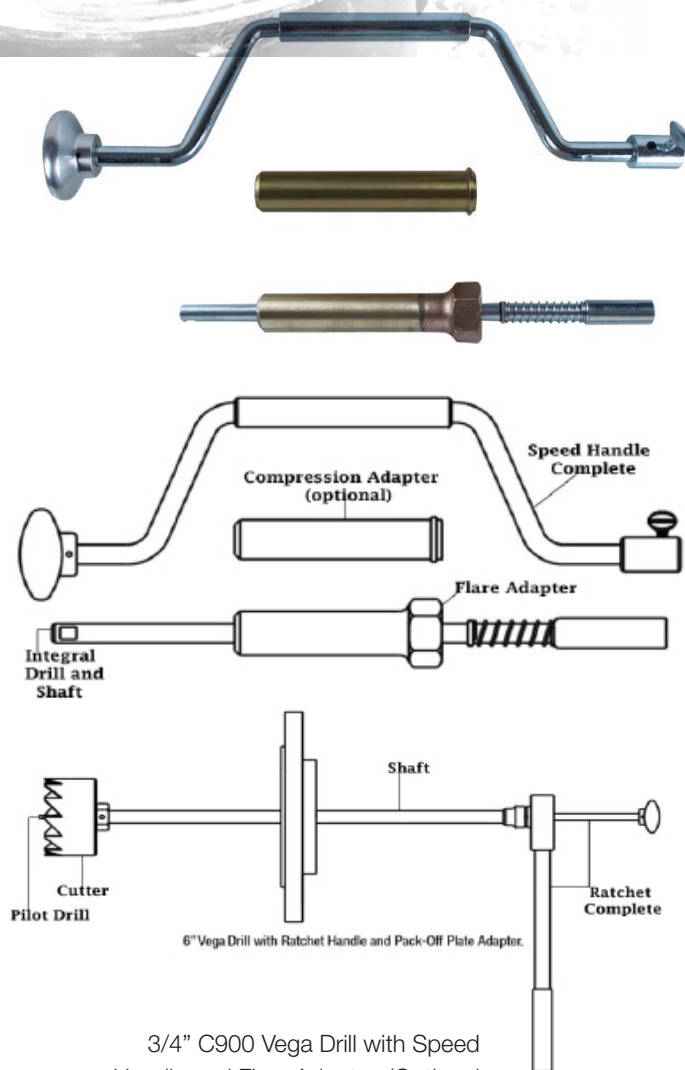
COMPLETE UNITS FOR C900 THICK WALL PLASTIC PIPE

* Complete units consist of Drill, Drive Mechanism, and type of Adapter specified.* The Vega Drill Speed Handle Drive Mechanism is available only on 3/4" and 1" units.
* 3/4" and 1" Drive Mechanisms are interchangeable.* 1 1/2" thru 4" Drive Mechanisms are interchangeable.* 6" & 8" Drive Mechanisms are interchangeable.* The 1 1/2" and 2" units are furnished with Female Iron Pipe (FIP) threaded adapter unless otherwise specified.* 3" thru 8" units are furnished with "Pack-Off" plate style adapters that fit on both flanged and MJ fittings.

HOW TO ORDER: On 3/4" thru 2" units, specify the Model Number, followed by the two-digit item code ending which specifies the type of Adapter desired.

Example: To order a 1" unit w/ Ratchet and IPS Compression Adapter, specify Part Number: 9100R01. On 3" thru 8" units, these models are furnished with "Pack-Off" plate style Adapters, so simply specify the Model Number.
Example: To order a 6" unit, specify **Part Number:**9600R.

NOTE: For 3/4" and 1" sizes Female Iron Pipe (FIP) or Male Iron Pipe (MIP) thread Flare bushing available. These bushings work in conjunction with the standard flare adapter, converting them from a flared copper thread to iron pipe thread. See parts page in adapters section.

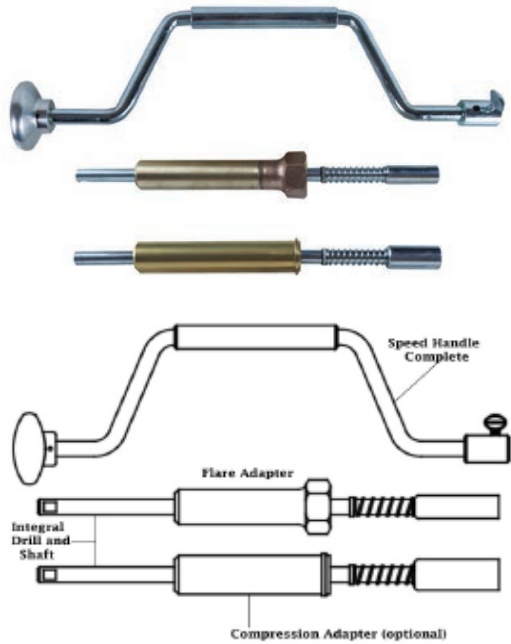


3/4" C900 Vega Drill with Speed Handle and Flare Adapter. (Optional Compression Adapter also shown.)

Model Number	Size		Drive Mechanism	Catalog Number			List Price
				Flare Adapter	Compression Adapters		
	Inches	MM			IPS	CTS	
9075S	3/4	20	Speed Handle	9075S00	9075S01	9075S02	\$ 418.80
9075R	3/4	20	Ratchet Handle	9075R00	9075R01	9075R02	\$ 656.00
9100S	1	25	Speed Handle	9100S00	9100S01	9100S02	\$ 463.10
9100R	1	25	Ratchet Handle	9100R00	9100R01	9100R02	\$ 702.50
9150R	1 1/2	40	Ratchet Handle	9150R00	9150R01	9150R02	\$ 919.40
9200R	2	50	Ratchet Handle	9200R00	9200R01	9200R02	\$ 946.70
9300R	3	80	Ratchet Handle	-	-	-	\$ 963.60
9400R	4	100	Ratchet Handle	-	-	-	\$ 1,043.10
9600R	6	150	Ratchet Handle	-	-	-	\$ 1,782.70
9800R	8	200	Ratchet Handle	-	-	-	\$ 2,294.00

9900

COMBO COMPLETE UNITS FOR C900 THICK WALL PLASTIC PIPE



* Combination units consist of Drills, Drive Mechanism, and type of Adapters specified.

* The Vega Drill Speed Handle Drive Mechanism is available only on 3/4" and 1" units.

* 1 1/2" & 2" units are furnished with Female Iron Pipe (FIP) threaded Adapters unless otherwise specified.

* 3/4" and 1" Drive Mechanisms are interchangeable.

* The 1 1/2" and 4" Drive Mechanisms are interchangeable.

* 6" & 8" Drive Mechanisms are interchangeable.

* 3" thru 8" units are furnished with "Pack-Off" plate style adapters that fit on both flanged and MJ fittings.

3/4" and 1" C900 Vega Drills with Speed Handle, 3/4" Flare Adapter, and 1" Compression Adapter.

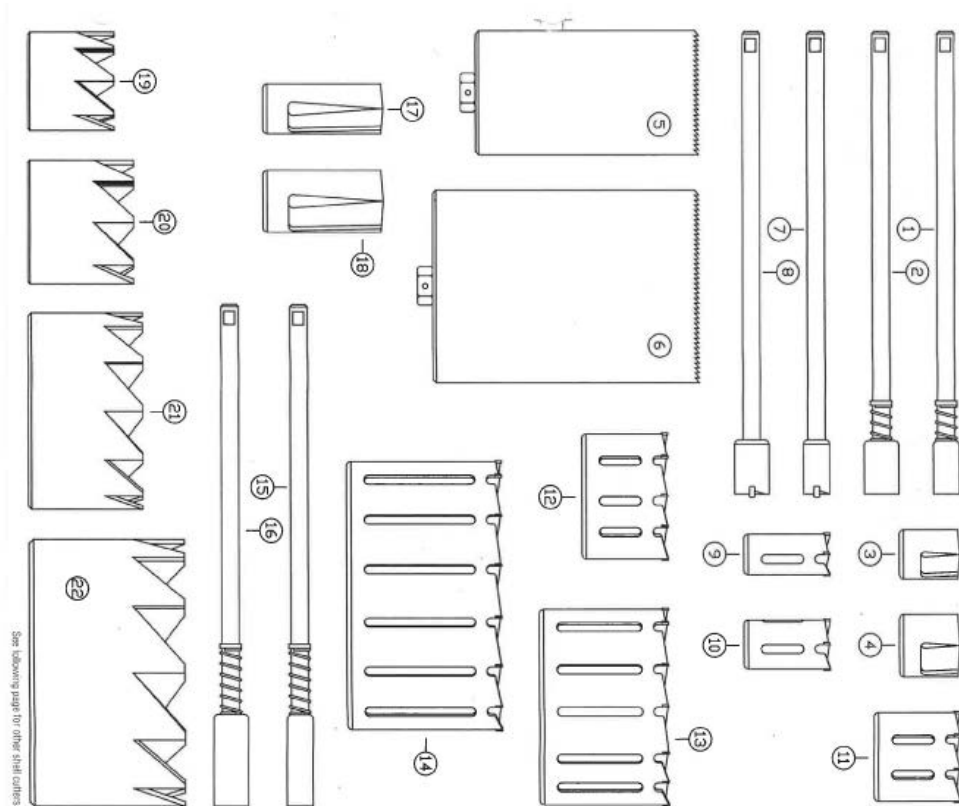
Model Number	Size		Drive Mechanism	Catalog Number			List Price
				Flare Adapter	Compression Adapters		
	Inches	MM				IPS	
9901S	3/4" & 1"	20 & 25	Speed Handle	9901S00	9901S01	9901S02	\$ 794.20
9901R	3/4" & 1"	20 & 25	Ratchet Handle	9901R00	9901R01	9901R02	\$ 1,033.30
9902R	3/4", 1", 1 1/2" & 2"	40 & 50 20, 25,	Ratchet Handle	9902R00	9902R01	9902R02	\$ 1,985.00
9904R	2" & 4"	50 & 100	Ratchet Handle	-	-	-	\$ 1,672.30
9906R	6" & 8"	150 & 200	Ratchet Handle	-	-	-	\$ 3,400.90
9908R	ALL	ALL	Ratchet Handle	-	-	-	\$ 6,612.40

HOW TO ORDER: Show model number followed by two digit item code ending which specifies the type of adapter desired. Example: To order a 3/4" & 1" Combination unit with Speed Handle and Flare Adapters, specify **Part Number:** 9901S00. When ordering combination units, remember to specify the type of Adapter for Vega Drill sizes smaller than 3".

NOTE: On the Model 9908R all size combination unit you must specify all of your adapter choices when ordering. For 3/4" and 1" sizes Female Iron Pipe (FIP) or Male Iron Pipe (MIP) thread Flare bushing available. These bushings work in conjunction with the standard flare adapter, converting them from a flared copper thread to iron pipe thread. See parts page in adapters section.

DRILLS & CUTTERS

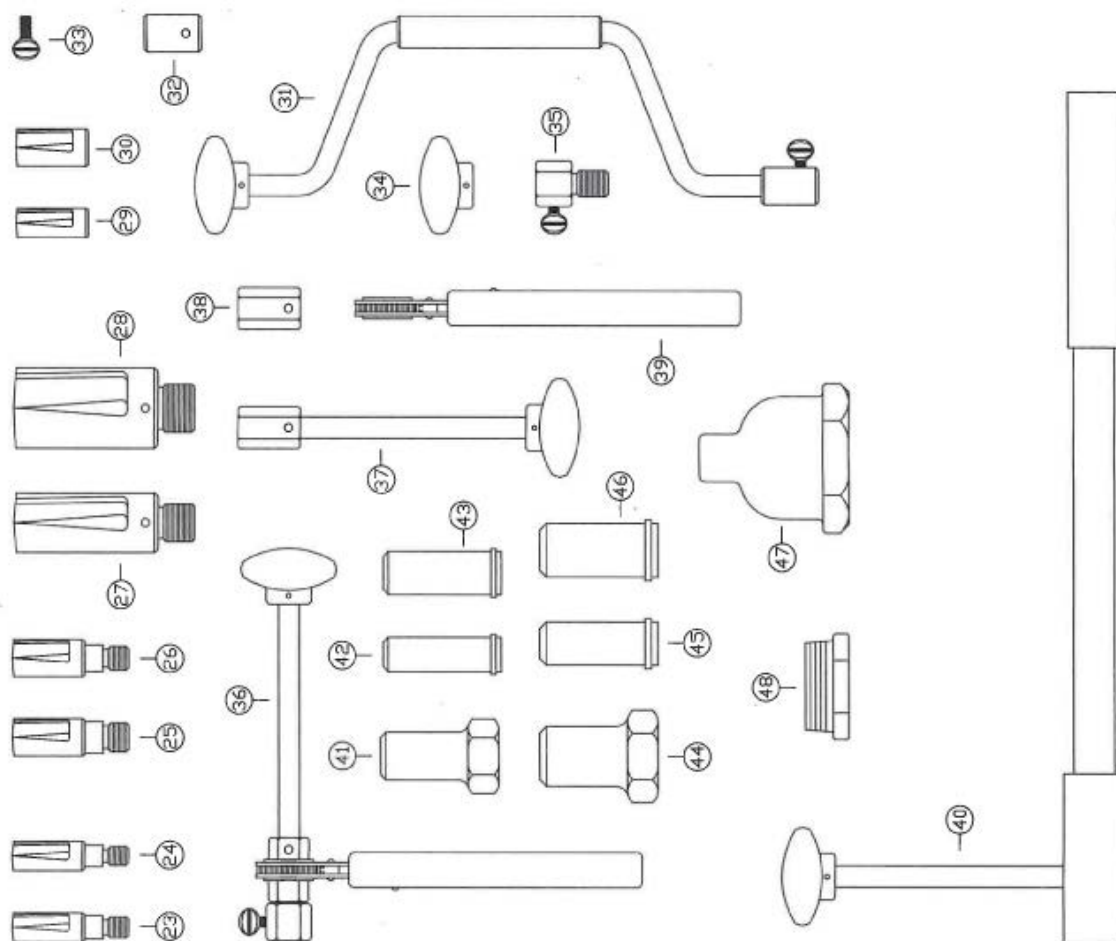
Catalog Number	Component Description	Illustration Key	List Price
3975A	3/4" Drill for IPS (Thin Wall)	1	\$ 145.20
3901A	1" Drill for IPS (Thin Wall)	2	\$ 155.30
3915A	1 1/2" Shell Cutter for IPS (Thin Wall)	3	\$ 165.40
3902A	2" Shell Cutter for IPS (Thin Wall)	4	\$ 201.30
4904A	4" Sewer Shell Cutter	5	\$ 346.40
4906A	6" Sewer Shell Cutter	6	\$ 427.50
7975A	3/4" Carbide Tip A/C Drill	7	\$ 343.80
7901A	1" Carbide Tip A/C Drill	8	\$ 373.10
7915A	1 1/2" Carbide Tip A/C Drill	9	\$ 459.20
7902A	2" Carbide Tip A/C Drill	10	\$ 503.40
7903A	3" Carbide Tip A/C Drill	11	\$ 722.70
7904A	4" Carbide Tip A/C Drill	12	\$ 1,005.90
7906A	6" Carbide Tip A/C Drill	13	\$ 1,430.60
7908A	8" Carbide Tip A/C Drill	14	\$ 1,855.80
9075A	3/4" C-900 Drill (Integral Shank)	15	\$ 188.20
9100A	1" C-900 Drill (Integral Shank)	16	\$ 216.30
9150A	1 1/2" C-900 Shell Cutter	17	\$ 265.20
9200A	2" C-900 Shell Cutter	18	\$ 351.10
9300A	3" C-900 Shell Cutter	19	\$ 289.30
9400A	4" C-900 Shell Cutter	20	\$ 402.40
9600A	6" C-900 Shell Cutter	21	\$ 572.10
9800A	8" C-900 Shell Cutter	22	\$ 742.40
9075DP	3/4" Cutter for /Dual Purpose Shank	29	\$ 231.80
9100DP	1" Cutter for /Dual Purpose Shank	30	\$ 347.20





HANDLES

Catalog Number	Component Description	Illustration Key	List Price
3901J	Complete Speed Handle for 3/4" & 1" Drill	31	\$ 87.70
3901J1	Speed Handle Coupler	32	\$ 19.60
3901J2	Speed Handle Thumb Screw	33	\$ 2.40
3901J3	Knob Only for Speed Handle	34	\$ 25.30
3901P	P- Adapter for 3/4" and 1" Ratchet	35	\$ 51.10
3902D	Complete Ratchet for Sizes Below 6"	36	\$ 327.20
3902D1	Ratchet Knob, Shaft & Coupler Only (Specify 3/4" or 7/8")	37	\$ 81.90
3902D2	Ratchet Coupler Only (Specify 3/4" or 7/8")	38	\$ 27.90
3902D3	Ratchet Only for Sizes Below 6" (Specify 3/4" or 7/8")	39	\$ 168.20
3906I	Complete Ratchet for 6" and 8" Drill	40	\$ 571.80

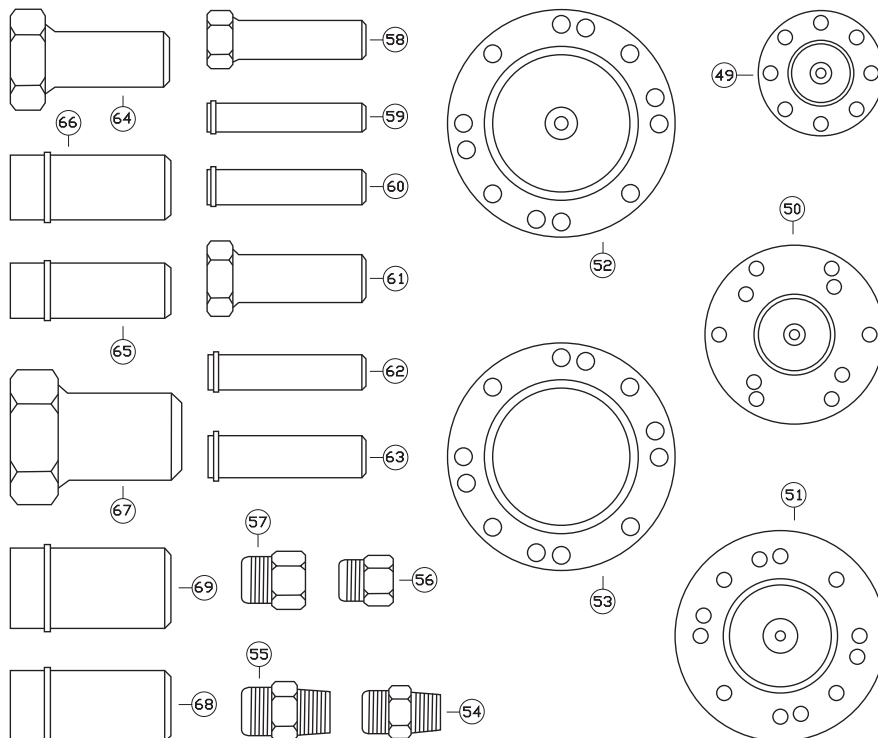


See previous page for VegaDrill® and other shelf cutters. See following page for additional adapters.

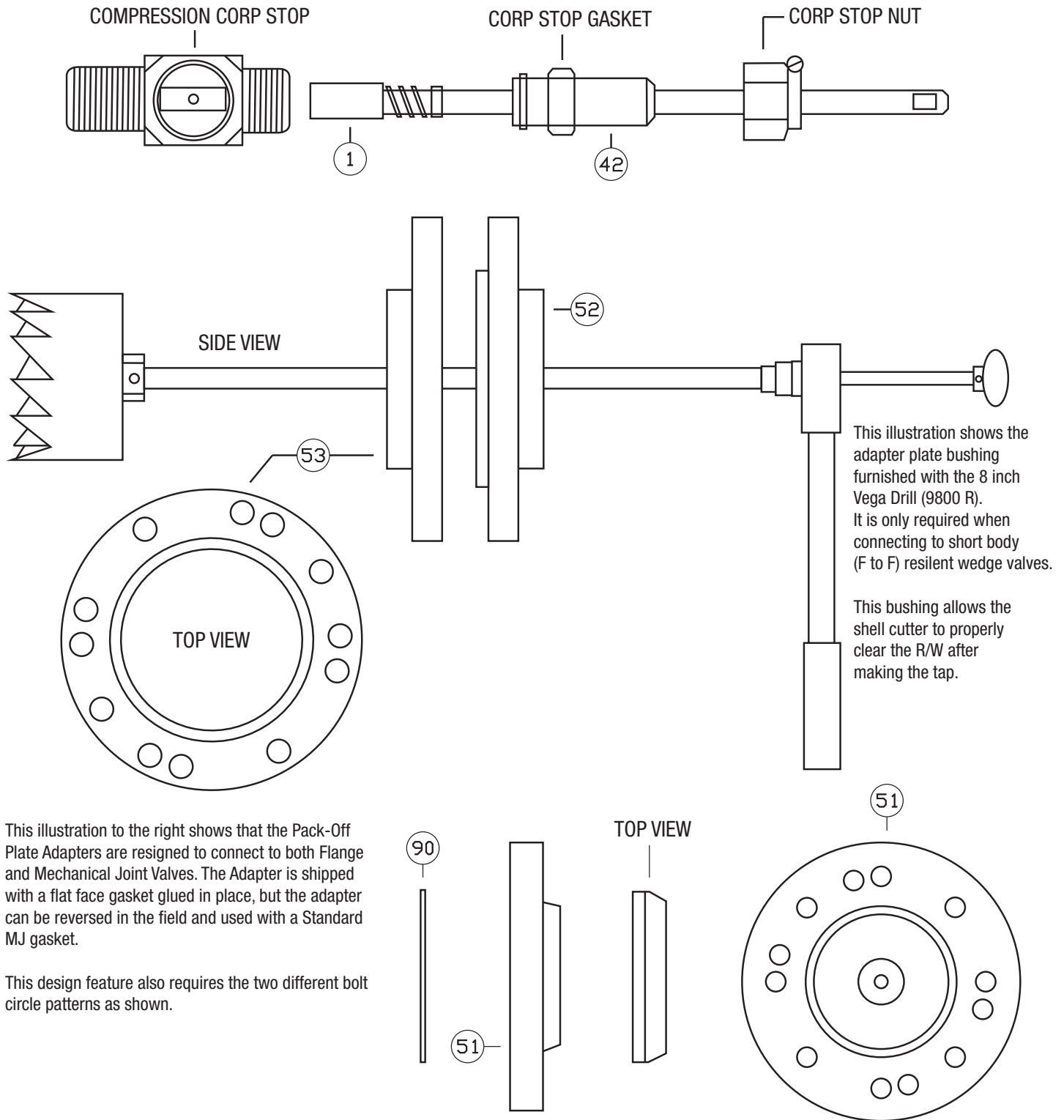
ADAPTERS

* Use with the 2" FIP Adapter to make a 1 1/2" FIP Adapter.

Catalog Number	Component Description	Illustration Key	List Price
3975F	3/4" Flare Adapter	41	\$ 110.40
3975C	3/4" CTS Compression Adapter	42	\$ 110.40
3975I	3/4" IPS Compression Adapter	43	\$ 110.40
3901F	1" Flare Adapter	44	\$ 126.10
3901C	1" CTS Compression Adapter	45	\$ 126.10
3901I	1" IPS Compression Adapter	46	\$ 126.10
3902F	2" Female Iron Pipe (FIP) Adapter	47	\$ 185.60
3902H*	2" NPT X 1 1/2" NPT Bushing	48	\$ 57.70
3903D	3" Pack-Off Plate (Flanged & MJ Valve)	49	\$ 207.00
3904D	4" Pack-Off Plate (Flanged & MJ Valve)	50	\$ 230.30
3906D	6" Pack-Off Plate (Flanged & MJ Valve)	51	\$ 517.30
3908D	8" Pack-Off Plate (Flanged & MJ Valve)	52	\$ 842.70
3908F	8" Adapter Plate Bushing	53	\$ 400.80
3975Q	3/4" Male Iron Pipe (MIP) X Flare Bushing	54	\$ 45.50
3901Q	1" Male Iron Pipe (MIP) X Flare Bushing	55	\$ 45.50
3975R	3/4" Female Iron Pipe (MIP) X Flare Bushing	56	\$ 45.50
3901R	1" Female Iron Pipe (MIP) X Flare Bushing	57	\$ 45.50
9075F	3/4" C900 Flare Adapter	58	\$ 142.70
9075C	3/4" C900 CTS Compression Adapter	59	\$ 142.70
9075I	3/4" C900 IPS Compression Adapter	60	\$ 142.70
9100F	1" C900 Flare Adapter	61	\$ 159.10
9100C	1" C900 CTS Compression Adapter	62	\$ 159.10
9100I	1" C900 IPS Compression Adapter	63	\$ 159.10
9150F	1 1/2" Flare Adapter	64	\$ 220.60
9150C	1 1/2" C900 CTS Compression Adapter	65	\$ 220.60
9150I	1 1/2" C900 IPS Compression Adapter	66	\$ 220.60
9200F	2" Flare Adapter	67	\$ 234.60
9200C	2" C900 CTS Compression Adapter	68	\$ 234.60
9200I	2" C900 IPS Compression Adapter	69	\$ 234.60



This illustration shows the assembly of a 3/4 inch Vega Drill and Compression Adapter to a compression Corporation Stop

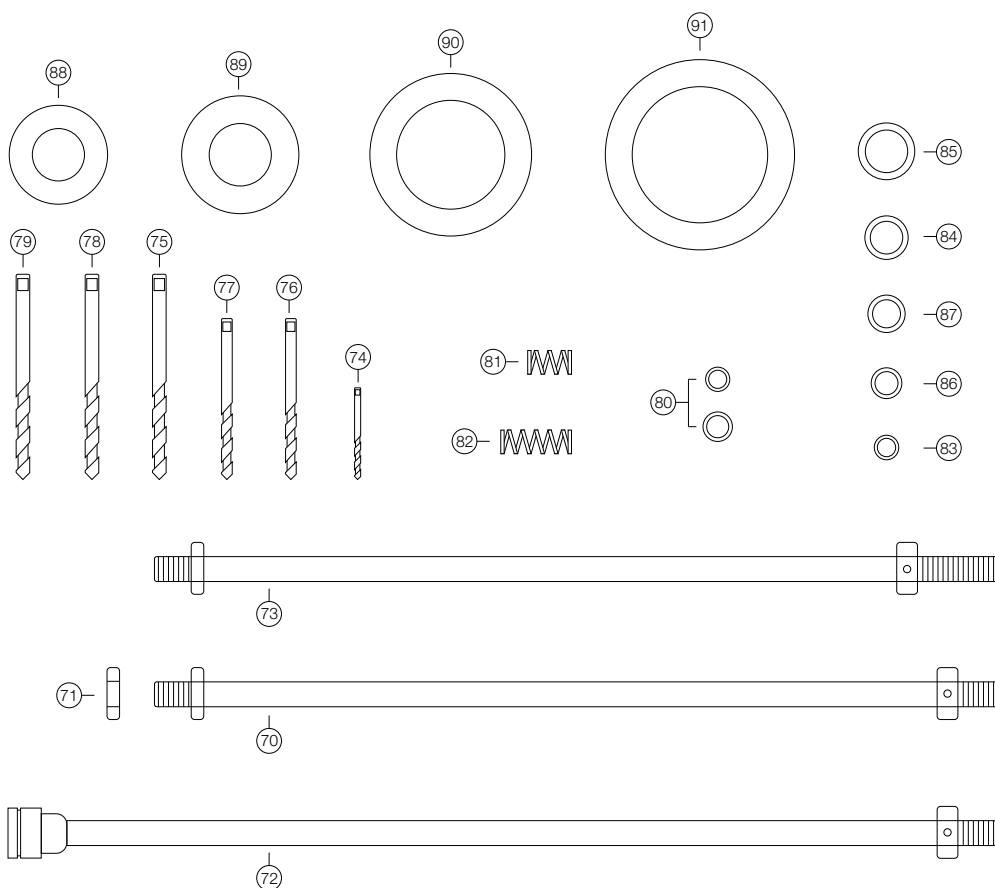


This illustration to the right shows that the Pack-Off Plate Adapters are resigned to connect to both Flange and Mechanical Joint Valves. The Adapter is shipped with a flat face gasket glued in place, but the adapter can be reversed in the field and used with a Standard MJ gasket.

This design feature also requires the two different bolt circle patterns as shown.

MISCELLANEOUS PARTS/ VEGADRILLS

Catalog Number	Component Description	Illustration Key	List Price
3905F	Shaft Only for 1 1/2", 2", 3" & 4" Cutters	70	\$ 69.90
3905F1	Jam Nut (5/8") for 2" & 4" Shaft	71	\$ 3.30
3906T	Shaft Only for 6" and 8" Shell Cutter	72	\$ 104.20
9200T	Shaft for 1 1/2" & 2" C900 Shell Cutter	73	\$ 92.10
3902G	1 1/2" & 2" Pilot Drill	74	\$ 14.20
9200G	1 1/2" & 2" C900 Pilot Drill	75	\$ 17.30
3903G	3" Pilot Drill	76	\$ 14.20
3904G	4" Pilot Drill	77	\$ 14.20
3906G	6" Pilot Drill	78	\$ 17.30
3908G	8" Pilot Drill	79	\$ 33.20
3901Y	SpiraLok Ring & Washer for 3/4" & 1" Drills	80	\$ 3.90
3901Z	Chip Retainer Spring for 3/4" & 1" Drills	81	\$ 4.10
9100Z	Chip Retainer Spring for 3/4" & 1" C900 Drills	82	\$ 8.40
3901V	Small O-Ring for 3/4" and 1" Adapters	83	\$ 2.40
3901W	Larger O-Ring for 3/4" Flare Adapter	84	\$ 2.60
3901X	Large O-Ring for 1" Flare Adapter	85	\$ 2.80
3904F	O-Ring for 2" FIP Adapter & 3" and 4" Pack-Off Plate	86	\$ 2.40
3906F	O-Ring for 6" and 8" Pack-Off Plate	87	\$ 2.40
3903E	3" Pack-Off Plate Gasket	88	\$ 14.80
3904E	4" Pack-Off Plate Gasket	89	\$ 14.80
3906E	6" Pack-Off Plate Gasket	90	\$ 22.10
3908E	8" Pack-Off Plate Gasket	91	\$ 26.60



4810

CASING CHOCK

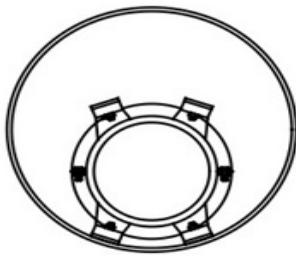
RISER: Type 304 (18-8) Stainless Steel per ASTM A240 or Carbon Steel per ASTM A36.

LINER: Elastomeric PVC per ASTM D149.

CHOCK SKID: Glass Reinforced Nylon or UHMW Polyethylene per ASTM D638.

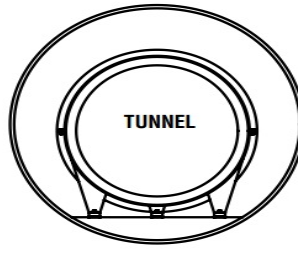
FASTENERS: Type 304 (18-8) Stainless Steel per ASTM A193.

PLEASE CONSULT FACTORY FOR PRICING



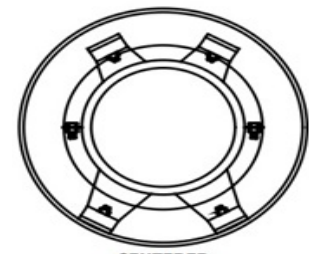
STANDARD

The standard design allows the carrier to clear the bell only.



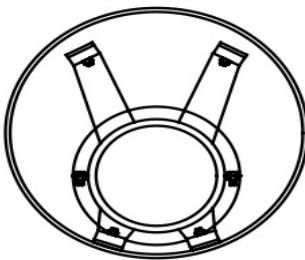
TUNNEL CHOCKS

Large diameter casing tunnels which previously required track systems for the carrier pipe can be accommodated with casing chocks designed to provide full support to concrete "Tunnel floor".



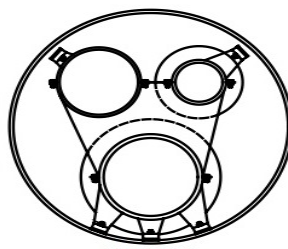
CENTER RESTRAINED

The centered option positions and restrains the main carrier in the center of the casing to provide maximum space for other use and maintain grade.



BOTTOM RESTRAINED

Bottom restrained chock allows for the clearance of the bell only yet provides restraint from floating within the casing.



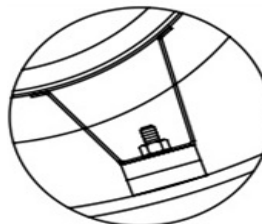
MULTICARRIER

Allows casing pipe to be fitted with two or more carrier pipes and/or electrical or communication conduits.

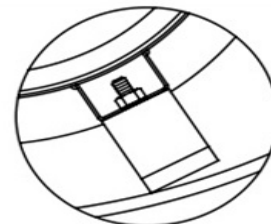
The Model 4810 Casing Chock is a versatile pipeline fitting that can be custom engineered for most carrier/casing pipe applications such as:

- Correcting improperly graded sewer casings.
- Centering pipeline rehabilitation slip lining carriers.
- Positioning insulated pipe without damaging insulation.
- Placing gravity sewer lines to on-grade requirements.

PowerSeal Risers are designed to place the skid in full contact with the inside surface of the casing pipe. This is a critical design element that evenly distributes the load force to all support members.



POWERSEAL RISER



COMPETITOR'S RISER

When ordering casing chocks please provide the following information:

- Engineering Firm Name, Job Name, and quote number.
- Outside Diameter and manufacturer of Carrier Pipe.
- Type of Joint, i.e. Mechanical Joint, Push-On, Flanged, Restrained, etc.
- Inside Diameter and Type of Casing Pipe.
- Length of Casing and/or Quantity of Chocks.
- Casing Chock Design, ie. Standard, Center restrained for example.
- Special installation requirements such as Leak Detection Cable, Special Clearance, etc.

HOW TO ORDER: To order a spacer to carry a 6" C900 pipe inside 16" 1/4" wall casing pipe order **Part Number:** 4810690155CA First four numbers are Model Number, next three are Carrier Pipe OD, next three are Casing Pipe ID, first letter is the design (S= Standard, C= Centered, B= Bottom), second letter is the Chock width (A= 8", B= 12"). Add -CS after this to denote Carbon Steel Chocks. Part Number: 4810690155CA-CS.



POLYETHYLENE CASING CHOCK 4860

PANEL HDPE Polyethylene ASTM D638.

RISER: HDPE Polyethylene ASTM D638.

CHOCK SKID: HDPE Polyethylene ASTM D638.

FASTENERS: Stainless Steel (304) ASTM A193.

Nominal Sizes	Effective Skid Height	Number of Runners	Number of Segments	Part Number	List Price
2 X 4-6	9/16"	6	2	4860238060NM	\$ 7.50
3 X 6-8	7/8"	6	2	4860350080NM	\$ 10.40
4 X 6-8	9/16"	6	2	4860450080NM	\$ 17.30
6 X 10-12	1	6	2	4860663120NM	\$ 23.00
8 X 12-14	1	6	2	4860863140NM	\$ 28.40
10 X 14-16	1	6	2	4860107160NM	\$ 32.90
12 X 16-18	1	6	2	4860127180NM	\$ 40.60
14 X 18-20	1	12	4	4860140180NM	\$ 47.70
16 X 20-22	1	12	4	4860160220NM	\$ 53.10
18 X 22-24	1	15	5	4860180240NM	\$ 59.20
20 X 24-26	2	15	5	4860200260NM	\$ 66.40
22 X 26-28	3	18	6	4860220300NM	\$ 72.40
24 X 28-30	4	18	6	4860240300NM	\$ 79.70
26 X 30-32	5	21	7	4860260320NM	\$ 85.70
28 X 32-34	6	21	7	4860280340NM	\$ 93.00
30 X 34-36	7	24	8	4860300360NM	\$ 99.00
32 X 34-36	8	24	8	4860320400NM	\$ 106.10
34 X 38-40	9	27	9	4860340420NM	\$ 112.30
36 X 40-42	10	27	9	4860360420NM	\$ 119.50
38 X 42-44	11	30	10	4860380440NM	\$ 125.60
40 X 44-46	12	30	10	4860400460NM	\$ 132.80
42 X 46-48	13	33	11	4860420480NM	\$ 138.90
44 X 48-50	14	33	11	4860440500NM	\$ 146.10
46 X 50-52	15	36	12	4860460520NM	\$ 152.10
48 X 52-54	16	36	12	4860480540NM	\$ 153.40

HOW TO ORDER: To order a spacer for a 4" IPS pipe inside 8" casing pipe order **Part Number:** 4860450080NM

4890

POLYETHYLENE CASING CHOCK

PANEL: HDPE Polyethylene ASTM D638.

RISER: HDPE Polyethylene ASTM D638.

CHOCK SKID: HDPE Polyethylene ASTM D638.

FASTENERS: Stainless Steel (304) ASTM A193.



FOR USE ON C900 AND DI PIPE OD'S

Carrier Size		Minimum Casing Size	Diameter Over Runners	Number of Runners	Number of Segments	Width	Part Number	List Price
In	MM							
4	100	10"	9 1/8"	6	2	4"	4890048100NM	\$ 25.80
6	150	12"	10 15/16"	6	2	4"	4890690120NM	\$ 28.10
8	200	16"	14 7/16"	6	2	4"	4890905160NM	\$ 30.60
10	250	18"	16 1/4"	6	2	4"	4890111180NM	\$ 32.60
12	300	20"	18 1/8"	6	2	4"	4890132200NM	\$ 36.30

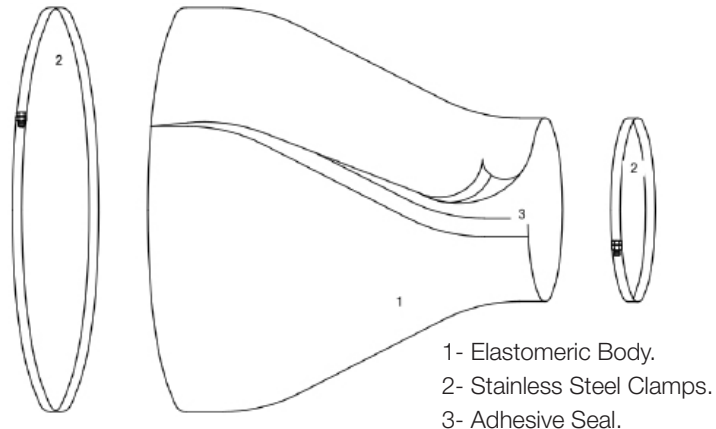
NOTE: Special Rubber Inserts available to convert Poly Spacers to fit IPS, SDR26 & 35.

HOW TO ORDER: To order a spacer for a 6" C900 pipe inside 12" casing pipe order **Part Number:** 4890690120NM

END SEALS FOR CASING PIPE CLOSURES

The PowerSeal wraparound design facilitates installation when the carrier line has already been installed and the job is complete. Pull on design available per request. Simply wrap the EndSeal around the carrier and casing pipes, press the industrial grade adhesive strips together, and secure with the stainless steel clamps. EndSeals may be manufactured for any carrier/casing differential. They are used to create a seal between the carrier pipe and casing to insure filler material is maintained within or foreign objects kept out of the annular space. And, unlike link-type sealing blocks that are limited by the carrier/casing differential and can only be used on a concentric profile, these EndSeals are totally flexible. They are constructed from 1/8" thick synthetic rubber assuring excellent chemical resistance and resiliency. These products out perform the costly and labor intensive brick and mortar method of sealing casing ends. While soil stress and pipe movement cause mortar to crack, the EndSeal moves with the pipe, insuring the integrity of the seal.

HOW TO ORDER First four numbers are model number, next three are casing pipe O.D., next three are carrier pipe O.D. EXAMPLE: A 30" casing pipe (30.00 O.D.) holding a 12" pipe (13.20 O.D.). Order **Part Number:** 4810300132ES. Add -PO after this to denote Pull On Model. **Part Number:** 4810300132ES-PO





PREVENTS VALVE MISALIGNMENT AND INSULATES

Valve Size		Gate Valve Manufacturer	Catalog Number	List Price
4	100	US Pipe	500004000USP	\$260.00
		Waterous	500004000WTS	
		Mueller	500004000MUE	
		Kennedy	500004000KEN	
6	150	US Pipe	500006000USP	\$276.30
		Waterous	500006000WTS	
		Mueller	500006000MUE	
		Kennedy	500006000KEN	
8	200	US Pipe	500008000USP	\$281.70
		Waterous	500008000WTS	
		Mueller	500008000MUE	
		Kennedy	500008000KEN	
10	250	US Pipe	500010000USP	\$287.00
		Waterous	500010000WTS	
		Mueller	500010000MUE	
		Kennedy	500010000KEN	
12	300	US Pipe	500012000USP	\$319.50
		Waterous	500012000WTS	
		Mueller	500012000MUE	
		Kennedy	500012000KEN	
16	400	US Pipe	500016000USP	\$368.30
		Waterous	500016000WTS	
		Mueller	500016000MUE	
		Kennedy	500016000KEN	

5000

VALVE BOX ALIGNER

PANEL HDPE Polyethylene
ASTM D638.

RISER: HDPE Polyethylene
ASTM D638.

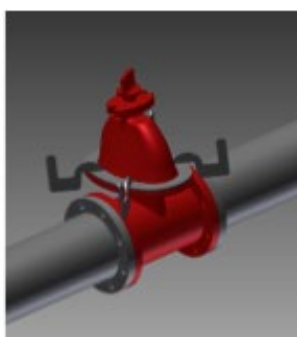
CHOCK SKID: HDPE Polyethylene
ASTM D638.

FASTENERS: Stainless Steel
(304) ASTM A193.

BODY: 1/4 Carbon Steel per
ASTM A36.

FINISH: Standard protective
Epoxy coating.

GASKET: SBR from 100% new
rubber with superior storage
characteristics. Suitable for mild
acids, water and salt media.



THE BEST WAY TO MEASURE PIPES

The PowerSeal O.D. Tape is available to measure up to 24" and 36" diameters. A light weight pocket size tape measure. Perfect for all those who work in the field, from engineers to laborers.

24" (600 mm)

Catalog Number	Size	List Price
6001	24" 600mm	\$ 24.80

36" (900 mm)

Catalog Number	Size	List Price
6001-36	36" 900mm	\$ 27.30



Measure the pipe in a quick and easy way. Wrap the O.D. Tape around the pipe and you will have your exact O.D. Available in IN/OD and METRIC/OD.

Ask factory about personalized tapes (Add your company logo) Set up cost apply (One time fee)



6960, 6061 & 6962

RATCHET SETS WITH DEEP SOCKETS

All PowerSeal Ratchet Sets come with deep sockets, which aid in the installation of PowerSeal Repair Clamps, Saddles, Tapping Sleeves, and Couplings. All kits include ratchet, 6" deep sockets, and a specially designed box to carry your ratchets. The 6" deep sockets facilitate proper field installations. Furthermore, the 6" deep sockets function with almost any style of ratchet.

Model Number	Size	Catalog Number	List Price
6961	1 5/16	696111516	\$450.00
	1 1/16	696111116	
	1 1/4	696111114	
	1 1/8	696111118	



MANHOLE ID MARKERS

BODY: Type 304 (18-8) Stainless Steel
per ASTM A240

TOP: 1/4" thick and 3.20" diameter.

LENGTH: 3 1/4" long.

THREADED: 5/8-11 UNC rolled thread.

The perfect manner for identifying manhole covers, valves, and water and sewer line locations. Made entirely out of 304 stainless steel which adds to the quality and image of your municipality.

Description	Catalog Number	List Price
Manhole ID Valve on Eastside	82100PS16000	\$50.70
Manhole ID Valve on Center	82100PS18000	\$50.70
Manhole ID Valve on Westside	82100PS93000	\$50.70
Manhole ID Valve on Southside	82100PS14000	\$50.70
Manhole ID Valve on Northside	82100PS17000	\$50.70
Sanitary Sewer Manhold ID	82100PS20000	\$50.70
Manhole ID Valve on Eastside with Threads	82100PS16T00	\$61.30
Manhole ID Valve on Center with Threads	82100PS18T00	\$61.30
Manhole ID Valve on Westside with Threads	82100PS93T00	\$61.30
Manhole ID Valve on Southside with Threads	82100PS14T00	\$61.30
Manhole ID Valve on Northside with Threads	82100PS17T00	\$61.30
Sanitary Sewer Manhold ID with Threads	82100PS20T00	\$61.30
Sanitary Sewer Manhold ID with Logo	82100PS20L00	\$74.10
Sanitary Sewer Manhold ID with Logo	82100PS20TL0	\$79.60
Manhole ID Valve on Southside with Threads, with Logo, with Hydrant	82100PS15TLH	\$79.60



Valve on Eastside



Valve on Westside



Valve on Northside



Valve on Southside



Valve on Center



Sewer ID w/ logo



Valve on Southside with Hydrant

8010P

18X18 POLY BOX W/ LOCKING LID



RING AND LID: Cast Iron per ASTM A536.
BODY: Poly blend, black exterior white interior with raised knockouts.
LOCKING MECHANISM: Bronze per ASTM B584, AWWA C800 (85-5-5).

Various Box Sizes and Lid options available upon request



RING AND LID Cast Iron per ASTM A536.
BODY: Galvanized 16 Gauge
LOCKING MECHANISM: Bronze per ASTM B584, AWWA C800.

8000 C.I MUSHROOM LID: Cast Iron per ASTM A48



Catalog Number

8000060000-M

List Price

POA

Water Meter Lid OFF

Ductile Iron Per ASTM A536 Locking Mechanism Bronze per ASTM B584, AWWA C800 (85-5-5)

8070 C.I VALVE BOX: Cast Iron per ASTM A48



Catalog Number

8070000000CI-W

List Price

POA

Sewer Lid available upon request



Catalog Number

801018X00WLO-OFF

List Price

POA

Water Meter Key ON: Ductile Iron Per ASTM A536



Catalog Number

801000000WMK

List Price

POA

Water Meter Key OFF: Ductile Iron Per ASTM A536



Catalog Number

801000000WMK-O

List Price

POA



VALVES

POWER VALVES

PowerSeal Model & letter design- ation		APCO		CRISPIN		VAL-MATIC		INLET X OUTLET
5401 AIR RELEASE	A	--	--	M3 & M5		15	150 psi	3/4 x 3/8
	B	55	150 psi	M8 & M10		22	150 psi	1/2 x 1/2
	C	65	150 psi	--		25	150 psi	3/4 x 1/2
	D	200A	150 psi	P10	150 psi	38	150 psi	1 x 1/2
	E	200A	150 psi	P10 A	150 psi	38	150 psi	2 x 1/2
	F	200A	300 psi	P10	300 psi	38	300 psi	1 x 1/2
	G	200A	200 psi	P10 A	200 psi	38	200 psi	2 x 1/2
	H	200	150 psi	P20	150 psi	45	150 psi	2 x 1
	I	200	300 psi	P20	300 psi	45	300 psi	2 x 1
	J	200	500 psi	HP20 A&B	500 psi	50	500 psi	2 x 1
K	205	800 psi	HP20C	800 psi	50HP	800 psi	2 x 1	
5402 AIR & VACUUM	A	142 150	or 300 psi	A-10		101 150	or 300 psi	1 x 1
	B	144 150	or 300 psi	A-20		102 150	or 300 psi	2 x 2
	C	146 150	or 300 psi	A-30		103 150	or 300 psi	3 x 3
	D	152 150	or 300 psi	A-41 &A-42		104 150	or 300 psi	4 x 4
	E	153 150	or 300 psi	A-61 & A-62		106 150	or 300 psi	6 x 6
	F	154 150	or 300 psi	A-81 & A-82		108 150	or 300 psi	8 x 8
	G	155 150	or 300 psi	A-101 & A-82		110 150	or 300 psi	10 x 10
	H	156 150	or 300 psi	--		112 150	or 300 psi	12 x 12
5403 COM- BINATION	A	143C	300 psi	U10		201C	300 psi	1 x 1
	B	145C	300 psi	U20		202C	300 psi	2 x 2
	C	147C	300 psi	U30		203C	300 psi	3 x 3
	D	149C	300 psi	U41		204C	300 psi	4 x 4
	E	152/200A	125 FLG	C41		104/38	125 FLG	4 x 4
	F	152/200A	250 FLG	C42		104/38	250 FLG	4 x 4
	G	153/200A	125 FLG	C61		106/38	125 FLG	6 x 6
	H	153/200A	250 FLG	C62		106/38	250 FLG	6 x 6
	I	154/200A	125 FLG	C81		108/38	125 FLG	8 x 8
	J	155/200A	250 FLG	C82		108/38	250 FLG	8 x 8
	K	155/200A	125 FLG	--		110/38	125 FLG	10 x 10
	L	155/200A	250 FLG	--		110/38	250 FLG	10 x 10
	M	156/200A	125 FLG	--		112/38	125 FLG	12 x 12
	N	156/200A	250 FLG	--		112/38	250 FLG	12 x 12
5404 SEWAGE	A	400		S20		48		2 x 1/2
	AF	400WA		S20B		48 BWA		2 x 1/2
	B	400		S30		48		3 x 1/2
	BF	400WA		S30B		48 BWA		3 x 1/2
	C	400		S40		48		4 x 1/2
	CF	400WA		S40B		48 BWA		4 x 1/2
5406 SEWAGE AIR & VACUUM	A	401		--		301		2 x 1
	AF	401WA		--		301 BWA		2 x 1
	B	402		S20A		302		2 x 2
	BF	402WA		S20AB		302 BWA		2 x 2
	C	403		S30A		303		3 x 3
	CF	403WA		S30AB		303 BWA		3 x 3
5407 COM- BINATION SEWAGE	A	400/401		--		48/301		2 x 1
	AF	400/401W		--		48/301 BWA		2 x 1
	B	400/402		S20/20A		48/302		2 x 2
	BF	400/402WA		S20/S20AB		48/302 BWA		2 x 2
	C	400/403		S30/S30A		48/303		3 x 3
	CF	400/403WA		S30/S30AB		48/303 BWA		3 x 3
5408 WELL SERVICE	A	141WD		D5		100 DWS		1/2 x 1/2
	B	142WD		D10		101DWS		1 x 1
	C	144WD		D20		102 DWS		2 x 2
	D	146WD		D30		103 DWS		3 x 3
	E	1604-152		D41 &D42		104 DWS		4 x 4
	F	1606-153		D61 & D62		106 DWS		6 x 6

AIR RELEASE VALVE

Air Release Valves are intended to release pockets of air as they accumulate at high points during system operation.

Air Release Valves open and release accumulated air under pressure through the use of a leverage mechanism. When the float is not longer buoyant, this mechanism produces a greater force to open the valve than the system pressure produces against the valve orifice.

For air release valve sizing, the higher the system pressure, the smaller the orifice diameter must be to allow the valve to open and release accumulated air conversely, for a lower system pressure, a larger orifice diameter must be used.

AIR/VACUUM VALVE

As a line is being filled with water, Air/Vacuum Valves mounted at high points in the system air present in the pipeline. After all the air has been exhausted, water from the pipeline will enter the valve, lift the float and close the valve orifice.

At some time during the system operation, should the internal pressure of the pipe approach a negative value due to column separation, draining of the pipeline, power outage, pipeline break, etc., the float will immediately drop away from the orifice, and allow a flow of air to re-enter the pipeline, which will minimize the potential vacuum and protect the pipeline against collapse or other related damage.

Even though the entire valve may eventually fill with air, the Air/Vacuum Valve will not open, as it is intended to only exhaust air during pipeline fill and to admit air during pipeline drain.

COMBINATION AIR VALVE

As the name implies, this valve combines the operating features of both an Air Release and Air-Vacuum Valve. It is utilized at those high points within a system where it has been determined that the functions of both Air Released and Air/Vacuum Valves are needed to properly vent and protect a pipeline.

5401

AIR RELEASE VALVE



BODY: Cast Iron per ASTM A48, Class 35.

COVER: Cast Iron per ASTM A48, Class 35.

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240.

ORIFICE BUTTON: Viton per ASTM D2000.

LEVER ASSEMBLY: Type 304 (18-8) Stainless Steel per ASTM A240 and A276.



Inlet Size NPT	Letter Code	Maximum Operating Pressure	Part Number	Standard Value	Weight	
		PSI			lbs.	kgs.
1/2	A	175	5401A0005000	\$223.10	6	3
3/4	A	175	5401A0007500	\$223.10	6	3
1	A	175	5401A0010000	\$247.30	6	3
1/2	B	175	5401B0005000	\$378.40	8	4
3/4	B	175	5401B0007500	\$378.40	8	4
1	B	175	5401B0010000	\$391.00	8	4
1/2	B	300	5401B0005300	\$397.90	8	4
3/4	B	300	5401B0007300	\$411.70	8	4
1	B	300	5401B0010300	\$411.70	8	4
3/4	C	150	5401C0007500	\$564.70	12	5
1	C	150	5401C0010000	\$564.70	12	5
3/4	C	300	5401C0075300	\$607.20	12	5

Inlet Size NPT	Letter Code	Maximum Operating Pressure	Part Number	Standard Value	Weight	
		PSI			lbs.	kgs.
1	C	300	5401C0010300	\$607.20	12	5
1	D	150	5401D0010000	\$668.20	24	11
2	E	150	5401E0020000	\$705.00	24	11
1	F	300	5401F0010000	\$717.60	24	11
2	G	300	5401G0020000	\$762.50	24	11
2	H	150	5401H0020000	\$1,288.00	48	22
3	H	150	5401H0030000	\$1,648.00	53	24
2	I	300	5401I0020000	\$1,377.00	48	22
3	I	300	5401I0030000	\$1,714.70	53	24
2	J	500	5401J0020000	P.O.A	77	35
2	K	800	5401K0020000	P.O.A	77	35

NOTE Ask factory for optional vacuum check kits

5402

AIR/VACUUM VALVE



BODY: Cast Iron per ASTM A48, Class 35

COVER: Cast Iron per ASTM A48, Class 35

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240

ORIFICE BUTTON: Nitrile (Buna-N) per ASTM D2000

LEVER ASSEMBLY: Type 304 (18-8) Stainless Steel per ASTM A240 and A276.

NPT INLET AND OUTLET - 300PSI CWP

Inlet Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
1/2	AA	5402AA005000	\$542.80	15	7
1	A	5402A0010000	\$662.40	24	11
2	B	5402B0020000	\$1,144.30	50	23
3	C	5402C0030000	\$1,611.20	55	25

FLANGED INLET WITH THREADED OUTLET

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 125 (150 PSI - CWP) List Price	Weight	
				lbs.	kgs.
4	D	5402D0040000	\$2,657.60	105	48
6	E	5402E0060000	\$3,933.00	160	73
8	F	5402F0080000	\$7,316.30	208	94

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 250 (300 PSI - CWP) List Price	Weight	
				lbs.	kgs.
4	D	5402D0040250	\$3,563.90	115	52
6	E	5402E0060250	\$5,367.10	176	80
8	F	5402F0080250	\$7,897.00	237	108

FLANGED INLET WITH FLANGED OUTLET

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 125 (150 PSI - CWP) List Price	Weight	
				lbs.	kgs.
10	G	5402G0100000	P.O.A	370	168
12	H	5402H0120000		555	252
14	I	5402I0140000		670	304
16	J	5402J0160000		860	390
18	K	5402K0180000		P.O.A	P.O.A
20	L	5402L0200000		P.O.A	P.O.A

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 250 (300 PSI - CWP) List Price	Weight	
				lbs.	kgs.
10	G	5402G0100250	P.O.A	405	184
12	H	5402H0120250		601	273
14	I	5402I0140250		710	322
16	J	5402J0160250		945	429
18	K	5402K0180250		P.O.A	P.O.A
20	L	5402L0200250		P.O.A	P.O.A

NOTE Ask factory for optional accessories.

5403 COMBINATION VALVE

(SINGLE BODY)

BODY: Cast Iron per ASTM A48, Class 35

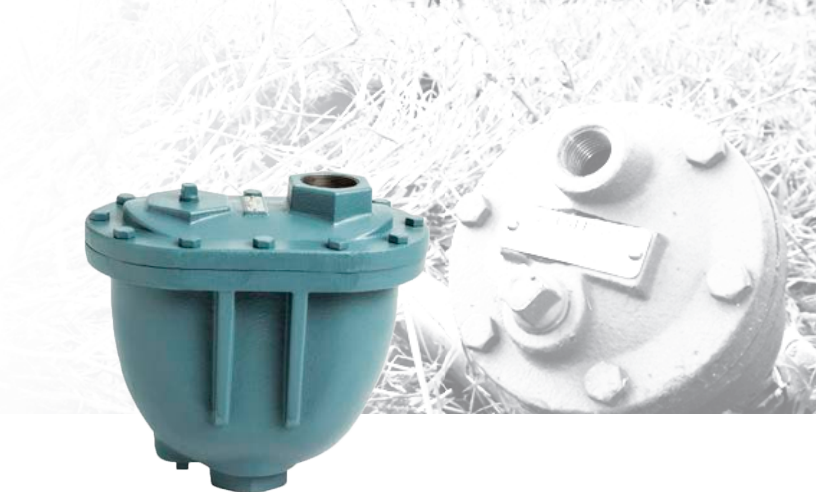
COVER: Cast Iron per ASTM A48, Class 35

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240

ORIFICE BUTTON: Viton per ASTM D2000.

FULL PORT SEAT: Nitrile (Buna-N) per ASTM D2000.

LEVER ASSEMBLY: Type 304 (18-8) Stainless Steel per ASTM A240 and A276.



SINGLE BODY THREADED INLET AND OUTLET (300 PSI - CWP)

Inlet Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
1	A	5403A0010000	\$979.80	38	18
2	B	5403B0020000	\$1,489.30	70	32

Inlet Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
3	C	5403C0030000	\$3,128.00	102	47
4	D	5403D0040000	\$4,152.70	150	68

SINGLE BODY FLANGED INLET WITH THREADED OUTLET

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 125 (150 PSI - CWP) List Price	Weight	
				lbs.	kgs.
3	C	5403C0030125	\$3,364.90	126	57
4	D	5403D0040125	\$4,359.70	161	73
6	E	5403E0060000	\$6,459.60	211	96
8	F	5403F0080000	\$8,311.10	325	147

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 250 (300 PSI - CWP) List Price	Weight	
				lbs.	kgs.
3	C	5403C0030250	\$3,731.80	112	51
4	D	5403D0040250	\$4,976.10	190	86
6	E	5403E0060250	\$6,795.40	241	109
8	F	5403F0080250	\$8,955.00	355	161

DUAL BODY FLANGED INLET WITH THREADED OUTLET

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 125 (150 PSI - CWP) List Price	Weight	
				lbs.	kgs.
4	D	5403D0040000-D	\$3,575.40	133	60
6	E	5403E0060000-D	\$4,785.20	188	85
8	F	5403F0080001-D	\$8,245.60	236	107
8	F	5403F0080002-D	\$9,336.90	260	118

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 250 (300 PSI - CWP) List Price	Weight	
				lbs.	kgs.
4	D	5403D0040250-D	\$4,720.00	142	64
6	E	5403E0060250-D	\$6,586.00	205	93
8	F	5403F0082501-D	\$8,979.20	266	121
8	F	5403F0082502-D	\$10,189.00	290	132

DUAL BODY FLANGED INLET WITH FLANGED OUTLET

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 125 (150 PSI - CWP) List Price	Weight	
				lbs.	kgs.
10	G	5403G0100001-D	POA	398	181
10	G	5403G0100002-D		422	191
12	H	5403H0120001-D		590	268
12	H	5403H0120002-D		614	279
14	I	5403I0140001-D		698	317
14	I	5403I0140002-D		722	327
16	J	5403J0160001-D		888	403
16	J	5403J0160002-D		912	414

Flanged Inlet Size	Letter Code	Part Number	ANSI Class 250 (300 PSI - CWP) List Price	Weight	
				lbs.	kgs.
10	G	5403G0102501-D	POA	438	199
10	G	5403G0102502-D		462	210
12	H	5403H0122501-D		637	289
12	H	5403H0122502-D		661	300
14	I	5403I0142501-D		738	335
14	I	5403I01425002-D		762	346
16	J	5403J0162501-D		973	441
16	J	5403J0162502-D		997	452



5404

WASTEWATER AIR RELEASE VALVE

BODY: Cast Iron per ASTM A48, Class 35.

COVER: Cast Iron per ASTM A48, Class 35

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240.

ORIFICE BUTTON: Viton per ASTM D2000.

LEVER ASSEMBLY: Type 304 (18-8) Stainless Steel per
ASTM A240 and A276



Made in U.S.A

THREADED INLET AND OUTLET (150PSI - CWP)

Inlet Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
2	A	5404A0020000	\$1,349.00	42	19
3	B	5404B0030000	\$1,543.30	47	21
4	C	5404C0040000	\$1,873.40	45	20
2	AS	5404AS020000	\$1,429.50	32	15
3	BS	5404BS030000	\$1,629.60	32	15
4	CS	5404CS040000	P.O.A	31	14
2	D	5404D0020000	\$1,838.90	82	37
3	E	5404E0030000	\$2,048.20	81	37
4	F	5404F0400000	P.O.A	80	37

AIR RELEASE VALVE WITH BACK WASH ACCESSORIES

Inlet Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
2	A	5404A002000F	\$1,850.40	55	25
3	B	5404B003000F	\$2,292.00	85	39
4	C	5404C004000F	\$3,045.20	102	46
2	AS	5404AS02000F	\$1,880.30	45	20
3	BS	5404BS03000F	\$2,710.60	70	32
4	CS	5404CS04000F	P.O.A	88	40
2	D	5404D002000F	\$2,005.60	95	43
3	E	5404E003000F	\$2,435.70	119	54
4	F	5404F040000F	P.O.A	138	63

5406 WASTEWATER AIR/ VACUUM VALVE

BODY: Cast Iron per ASTM A48, Class 35.

COVER: Cast Iron per ASTM A48, Class 35.

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240.

FULL PORT SEAT: Nitrile (Buna-N) per ASTM D2000.

LEVER ASSEMBLY: Type 304 (18-8) Stainless Steel per ASTM A240 and A276.



THREADED INLET AND OUTLET (150 PSI - CWP)



Valve Size NPT	Letter Code	Part Number	Standard Valve List Price	Weight	
				lbs.	kgs.
2 x 1	A	5406A002000T	\$1,385.80	41	19
2 x 2	B	5406B002000T	\$2,778.40	68	31
3 x 3	C	5406C003000T	\$3,286.70	68	31

Valve Size NPT	Letter Code	Part Number	Valve with Back Wash Acces- series List Price	Weight	
				lbs.	kgs.
2 x 1	A	5406A02000BW	\$1,880.30	50	23
2 x 2	B	5406B02000BW	\$2,999.20	78	36
3 x 3	C	5406C03000BW	\$4,099.80	90	41

ANSI CLASS 125 FLANGED INLET AND THREADED OUTLET (150 PSI - CWP)

Valve Size	Letter Code	Part Number	Standard Valve List Price	Weight	
				lbs.	kgs.
4 x 4	D	5406D04000F	\$7,105.90	165	75
6 x 6	E	5406E06000F	\$9,350.70	235	107
8 x 8	F	5406E08000F	POA	320	145

Valve Size	Letter Code	Part Number	Valve with Back Wash Acces- series List Price	Weight	
				lbs.	kgs.
4 x 4	D	5406D040FBW	\$8,418.00	233	106
6 x 6	E	5406E060FBW	\$10,992.90	351	159
8 x 8	F	5406E080FBW	POA	540	245

WASTEWATER COMBINATION AIR VALVE

5407



BODY: Cast Iron per ASTM A48, Class 35.

COVER: Cast Iron per ASTM A48, Class 35.

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240.

ORIFICE BUTTON: Viton per ASTM D2000.

FULL PORT SEAT: Nitrile (Buna-N) per ASTM D2000.

LEVER ASSEMBLY: Type 304 (18-8) Stainless Steel per ASTM A240 and A276.



Made in U.S.A

SINGLE BODY THREADED INLET AND OUTLET (150 PSI - CWP)

Valve Size NPT	Letter Code	Part Number	Standard Valve List Price	Weight	
				lbs.	kgs.
2 x 1	A	5407A002000S	\$2,550.70	41	19
2 x 2	B	5407B002000S	\$3,795.00	73	33
3 x 3	C	5407C003000S	\$4,882.00	93	42
4 x 4	D	5407D004000S	\$6,028.30	175	79

Valve Size NPT	Letter Code	Part Number	Valve with Back Wash Acces- sories List Price	Weight	
				lbs.	kgs.
2 x 1	A	5407A0020001	\$2,762.30	51	23
2 x 2	B	5407B0020002	\$4,118.20	83	38
3 x 3	C	5407C0030003	\$5,298.00	118	54
4 x 4	D	5407D0040004	\$6,313.50	203	92

DUAL BODY THREADED INLET AND OUTLET (150 PSI - CWP)

Valve Size NPT	Letter Code	Part Number	Standard Valve List Price	Weight	
				lbs.	kgs.
2 x 1	A	5407A002000T	\$3,373.00	103	47
2 x 2	B	5407B020000T	\$4,774.80	130	59
2 x 2	BB	5407BB02000T	\$5,267.00	153	69
3 x 3	C	5407C003000T	\$5,770.00	130	59
3 x 3	CC	5407CC0300T	\$6,262.00	153	69

Valve Size NPT	Letter Code	Part Number	Valve with Back Wash Acces- sories List Price	Weight	
				lbs.	kgs.
2 x 1	A	5407A0020001	\$4,020.00	112	51
2 x 2	B	5407B0200002	\$5,250.90	139	63
2 x 2	BB	5407BB020002	\$5,793.70	162	74
3 x 3	C	5407C0030003	\$6,877.00	139	63
3 x 3	CC	5407CC030003	\$7,270.30	162	74

ANSI CLASS 125 FLANGED INLET AND THREADED OUTLET (150 PSI - CWP)

Valve Size	Letter Code	Part Number	Standard Valve List Price	Weight	
				lbs.	kgs.
4 x 4	D	5407D040000F	\$7,426.70	205	93
4 x 4	DD	5407DD40000F	\$7,916.60	245	111
6 x 6	E	5407E060000F	\$10,045.30	282	128
6 x 6	EF	5407EF60000F	\$10,528.30	322	146
8 x 8	F	5407F080000F	POA	380	172
8 x 8	FF	5407FF080000F	POA	414	188

Valve Size	Letter Code	Part Number	Valve with Back Wash Acces- sories List Price	Weight	
				lbs.	kgs.
4 x 4	D	5407D0400004	\$8,543.40	287	130
4 x 4	DD	5407DD400004	\$8,930.90	327	148
6 x 6	E	5407E0600006	\$10,238.50	411	186
6 x 6	EF	5407EF600006	\$13,783.90	451	205
8 x 8	F	5407F0800008	POA	610	277
8 x 8	FF	5407FF0800008	POA	646	293

5408

WELL SERVICE AIR VALVE

BODY: Cast Iron per ASTM A48, Class 35.

COVER: Cast Iron per ASTM A48, Class 35.

FLOAT: Type 304 (18-8) Stainless Steel per ASTM A240.

FULL PORT SEAT: Nitrile (Buna-N) per ASTM D2000.



Throttling
device

THREADED INLET AND OUTLET (300 PSI - CWP)

Includes dual ported throttling device

Valve Size	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
1/2	A	5408A0050000	\$814.20	17	8
1	B	5408B0100000	\$930.40	28	13
2	C	5408C020000	\$1,449.00	60	27
3	D	5408D030000	\$2,019.40	70	32



Made in U.S.A

125# FLANGED INLET AND THREADED OUTLET

Includes regulated - exhaust device

Valve Size	Letter Code	Part Number	Bronze Trim List Price*	Part Number	Stainless Trim List Price	Weight	
						lbs.	kgs.
4	E	5408E0600125	\$5,280.80	5408E0600125-S	\$5,934.00	159	72
6	F	5408F0600125	\$8,083.40	5408F0600125-S	\$9,312.70	248	112
8	G	5408G0800125	\$12,945.60	5408G0800125-S	\$14,932.80	355	161
Flanged inlet with flanged outlet							
10	H	5408H100125	P.O.A	5408H100125-S	P.O.A	605	274
12	I	5408I0120125		5408I01200125-S		925	420

250# FLANGED INLET AND THREADED OUTLET

Includes regulated - exhaust device

Valve Size	Letter Code	Part Number	Bronze Trim List Price*	Part Number	Stainless Trim List Price	Weight	
						lbs.	kgs.
4	E	5408E0400250	\$6,882.80	5408E0400250-S	\$6,762.00	174	79
6	F	5408F0600250	\$10,664.00	5408F0600250-S	\$10,756.00	279	127
8	G	5408G0800250	\$16,879.70	5408G0800250-S	\$17,100.00	455	206
Flanged inlet with flanged outlet							
10	H	5408H100250	P.O.A	5408H100250-S	P.O.A	690	313
12	I	5408I1200250		5408I0120250-S		1075	488

*Only the regulated-exhaust device is bronze trim. The air valve is T316 stainless steel trim.



GLOBE STYLE METAL STEEL SILENT CHECK VALVES

5390

VALVES

BODY: Cast Iron per ASTM A126, Class B.

SEAT: Bronze per ASTM B584, CDA-836

PLUG: Bronze per ASTM B584, CDA-836.

SPRING: Type 304 (18-8) Stainless Steel per ASTM A313.

BUSHING: Bronze per ASTM B584, CDA-932.

RETAINING SCREW: Type 304 (18-8) Stainless Steel per ASTM A276.



Made in U.S.A

125# FLANGED VALVE

Flanged Inlet Size	Letter Code	Part Number	Stainless Trim List Price	Part Number	Bronze Trim List Price	Weight	
						lbs.	kgs.
2 1/2	A	5390A02500Z0	\$1,454.80	5390A02500Z1	\$930.40	24	11
3	B	5390B03000Z0	\$1,538.70	5390B03000Z1	\$1,024.70	28	13
4	C	5390C04000Z0	\$2,034.40	5390C04000Z1	\$1,326.00	43	20
5	D	5390D05000Z0	\$2,960.10	5390D05000Z1	\$1,810.10	55	25
6	E	5390E06000Z0	\$3,604.10	5390E06000Z1	\$2,175.80	71	32
8	F	5390F08000Z0	\$5,897.20	5390F08000Z1	\$3,391.40	123	56
10	G	5390G01000Z0	\$9,451.90	5390G01000Z1	\$5,009.40	183	83
12	H	5390H02000Z0	\$14,020.80	5390H01200Z1	\$7,880.90	306	139
14	I	5390A01400Z0	\$18,120.60	5390A01400Z1	\$11,38.90	380	172
16	J	5390B01600Z0	\$22,998.00	5390B01600Z1	\$15,269.70	501	227
18	K	5390C01800Z0	POA	5390C01800Z1	POA	724	328
20	L	5390D02000Z0		5390D02000Z1		890	404
24	M	5390E02400Z0		5390E02400Z1		1220	553
30	N	5390F03000Z0		5390F03000Z1		POA	POA
36	O	5390G03600Z0		5390G03600Z1			
42	P	5390H04200Z0		5390H04200Z1			

250# FLANGED VALVE

Flanged Inlet Size	Letter Code	Part Number	Stainless Trim List Price	Part Number	Bronze Trim List Price	Weight	
						lbs.	kgs.
2 1/2	A	5390A02500Z2	\$1,917.10	5390A02500Z3	\$1,385.80	30	14
3	B	5390B03000Z2	\$2,197.70	5390B03000Z3	\$1,484.70	36	16
4	C	5390C04000Z2	\$2,586.40	5390C04000Z3	\$1,963.10	59	27
5	D	5390D05000Z2	\$4,002.00	5390D05000Z3	\$2,431.10	78	35
6	E	5390E06000Z2	\$5,037.00	5390E06000Z3	\$3,214.30	103	47
8	F	5390F08000Z2	\$8,065.00	5390F08000Z3	\$5,462.50	179	81
10	G	5390G01000Z2	\$11,592.00	5390G01000Z3	\$7,840.70	253	115
12	H	5390H12000Z2	\$18,025.10	5390H12000Z3	\$12,345.30	401	182
14	I	5390A01400Z2	\$23,621.00	5390A01400Z3	\$16,648.60	511	232
16	J	5390B01600Z2	\$30,563.60	5390B01600Z3	\$23,437.00	697	316
18	K	5390C01800Z2	POA	5390C01800Z3	POA	959	435
20	L	5390D02000Z2		5390D02000Z3		1180	535
24	M	5390E02400Z2		5390E02400Z3		1680	762
30	N	5390F03000Z2		5390F03000Z3		POA	POA
36	O	5390G03600Z2		5390G03600Z3			
42	P	5390H04200Z2		5390H04200Z3			

5396

THREADED STYLE BRONZE BODY* SILENT CHECK

BODY: Cast Iron per ASTM A126, Class B.

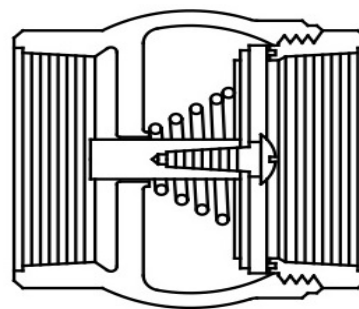
SEAT: Bronze per ASTM B584, CDA-836

PLUG: Bronze per ASTM B584, CDA-836.

SPRING: Type 304 (18-8) Stainless Steel per ASTM A313.

BUSHING: Bronze per ASTM B584, CDA-932.

RETAINING SCREW: Type 304 (18-8) Stainless Steel per ASTM A276.



Made in U.S.A

250 PSI MAXIMUM PRESSURE

Valve Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
1/2	A	5396A00500Z1	\$112.70	0.8	0.3
3/4	B	5396B07500Z1	\$136.90	1.0	1.0
1	C	5396C01000Z1	\$174.80	1.5	1.5

Valve Size NPT	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
1 1/4	D	5396D01250Z1	\$205.90	2.0	0.9
1 1/2	E	5396E01500Z1	\$281.80	2.5	1.1
2	F	5396F02000Z1	\$404.80	4.0	1.8

5397

WAFER STYLE METAL SEAT

BODY: Cast Iron per ASTM A126, Class B.

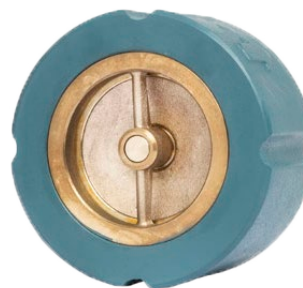
SEAT: Bronze per ASTM B584, CDA-836.

PLUG: Bronze per ASTM B584, CDA-836.

SPRING: Type 304 (18-8) Stainless Steel per ASTM A313.

BUSHING: Bronze per ASTM B584, CDA-932.

RETAINING SCREWS: Type 304 (18-8) Stainless Steel per ASTM A276.



Made in U.S.A

125# FLANGED VALVE

Flanged Inlet Size	Letter Code	Part Number	Stainless Trim List Price	Part Number	Bronze Trim List Price	Weight	
						lbs.	kgs.
2	A	5397A0020000	\$805.00	5397A00200Z1	\$460.00	6	3
2 1/2	B	5397B0025000	\$931.50	5397B00250Z1	\$517.50	7	3.2
3	C	5397C0030000	\$1,124.70	5397C00300Z1	\$532.50	11	5
4	D	5397D0040000	\$1,544.50	5397D00400Z1	\$709.60	19	9
5	E	5397E0050000	\$2,170.00	5397E00500Z1	\$1,094.80	28	13
6	F	5397F0060000	\$2,450.70	5397F00600Z1	\$1,277.70	41	19
38	G	5397G0080000	\$4,254.00	5397G00800Z1	\$2,287.40	84	38
10	H	5397H0100000	\$6,610.20	5397H01000Z1	\$3,570.80	129	59

250# FLANGED VALVE

Flanged Inlet Size	Letter Code	Part Number	Stainless Trim List Price	Part Number	Bronze Trim List Price	Weight	
						lbs.	kgs.
8	G	5397G0080250	\$4,981.80	5397G0080250-S	\$3,074.00	89	41
10	H	5397H0100250	\$7,648.70	5397H0100250-S	\$4,627.60	137	62

NOTE: Sizes 2"-6" are combination valves suitable for both 125# and 250# applications.



FOOT VALVE 5398

BODY: Cast Iron per ASTM A126, Class B.

SEAT: Bronze per ASTM B584, CDA-836 and Buna-N Rubber.

PLUG: Bronze per ASTM B584, CDA-836.

SCREEN: Type 304 (18-8) Stainless Steel per ASTM A240

BUSHING: Bronze per ASTM B584, CDA-932.



Made in U.S.A

125# FLANGED VALVE

Flange Size	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
2	A	5398A0020000	\$2,640.40	33	15
2 1/2	B	5398B0025000	\$2,640.40	33	15
3	C	5398C0030000	\$2,647.30	37	17
4	D	5398D0040000	\$3,151.00	57	26
5	E	5398E0050000	\$4,251.60	70	32
6	F	5398F0060000	\$4,776.00	90	41
8	G	5398G0080000	\$6,955.20	153	69
10	H	5398H0100000	\$9,668.10	226	103
12	I	5398I0120000	\$13,530.90	370	168
14	J	5398J0140000	\$21,985.60	465	211
16	K	5398K0160000	\$25,609.40	594	269
18	L	5398L0180000	POA	844	383
20	M	5398M0200000		1045	474
24	N	5398N0240000		1430	649
30	O	5398O3000000		POA	POA
36	P	5398P0360000			
42	Q	5398Q0420000			

5981

SPLIT DISC BUTTERFLY CHECK VALVE

BODY: Cast Iron per ASTM A126, Class B.

DISC: Bronze per ASTM B584, CDA-836, or Aluminum Bronze per ASTM B148, CDA-952, or Ductile Iron per ASTM A536 (65-45-12).

SEAL: Buna-N (NBR) per ASTM D2000-BG.

TRIM: Type 316 Stainless Steel per ASTM A276.

SPRING: Type 316, or 17-7 PH Stainless Steel per ASTM A313.



CAST IRON BODY DUCTILE IRON DISC 125#

Flange Size	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
14	C	5981C014000D	\$10,646.70	187	85
16	D	5981D016000D	\$14,862.60	270	122
18	E	5981E018000D	POA	330	150
20	F	5981F020000D		424	192
24	G	5981G024000D		589	267
30	H	5981H030000D		1112	504
36	I	5981I036000D		1864	846
42	J	5981J042000D		POA	POA
48	K	5981K048000D			
54	L	5981L054000D			
60	M	5981M060000D			

DUCTILE IRON BODY BRONZE DISC 125#

Flange Size	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
2	A	5981A0020000	\$448.50	4	2
2 1/2	B	5981B0250000	\$526.70	5	2
3	C	5981C0030000	\$562.40	7	3
4	D	5981D0040000	\$722.20	9	4
5	E	5981E0050000	\$1,102.90	13	6
6	F	5981F0060000	\$1,102.90	19	9
8	G	5981G0080000	\$1,697.40	41	19
10	H	5981H0100000	\$2,522.00	65	30
12	I	5981I01200000	\$3,262.60	94	43

CAST IRON BODY ALUMINUM BRONZE DISC 125#

Flange Size	Letter Code	Part Number	List Price	Weight	
				lbs.	kgs.
14	J	5981J014000A	\$10,788.20	187	85
16	K	5981K016000A	\$15,168.50	270	122
18	L	5981L018000A	POA	330	150
20	M	5981M020000A		424	192
24	N	5981N024000A		589	267
30	O	5981O030000A		1112	504
36	P	5981P036000A		1864	846
42	Q	5981Q042000A		POA	POA
48	R	5981R048000A			
54	S	5981S054000A			
60	T	5981T060000A			



HDPE



3121AS-PE

1 1/4" pipe size and larger in widths of 6" to 48", all stainless steel repair clamp.



3122AS-PE

3" pipe size and larger all stainless steel 2-panel wide range repair clamp.



3412AS-PE

3" - 12" diameter fabricated all stainless steel saddle.



3414AS-PE

4" - 12" diameter fabricated all stainless steel wide range saddle.



3416AS-PE

14" - 20" diameter fabricated 2-Panel all stainless steel wide range saddle for larger diameter pipe.



3422AS-PE

4" - 24" diameter fabricated 2 strap all stainless steel wide range saddle.



**3480AS-PE /
CS-PE**

3" - 30" all stainless tapping sleeve with flange outlet, weld on bolt design.



**3480MJAS-PE /
CS-PE**

3" - 30" all stainless tapping sleeve with mechanical joint outlet, weld on bolt design. Outlet sizes from 2 - 12".



3530

HDPE Stiffener insert

HDPE TECHNICAL INFORMATION

The following standard PowerSeal products have been evaluated and approved for use with high density polyethylene pipe based upon certain modifications and restrictions related to the unique properties of HDPE pipe compared with more commonly used rigid pipe materials.



Products shown in the HDPE section are the only products suitable for HDPE applications. Do not use products in other sections on HDPE pipe.



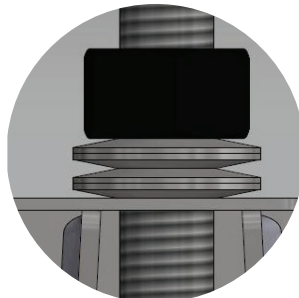
All bolts will be supplied with four spring washer.

PRODUCT RESTRICTIONS WHEN USED WITH HDPE

- Maximum operating pressure: 150 PSI (150 Mpa)
- Temperatures ranges: 32° - 75°F (0° - 23.9° C)
- Manufacturing standard: AWWA/ANSI C906-90
- Underground service only
- Pipe Stiffeners must be placed in each pipe end when used on mechanical bolt on fittings
- Clamp and sleeve width must exceed pipe diameter
- Pipe SDR (wall thickness) no more than 17 (PN-10)
- Each bolt must have four spring washers

KEY PROPERTIES INHERENT WITH HDPE

- Toe in happens when HDPE is cut which can alter the ability of any sleeve or saddle to seal and affect the installation of stiffeners.
- The coefficient of thermal expansion is over 10 times that of ductile and steel pipe and 3 times as much as PVC. This equates to the possibility of shrinkage at these same levels versus these types of pipes when it gets cold. This raises the chances of a fitting loosening on it. It also has a tendency to shrink lengthwise 1 inch (25.4mm) per 100 feet (30.48m) of pipe with a 10°F (5.5° C) reduction temperature. This results in the pipe pulling out of fittings.
- A low coefficient of friction makes the exterior surface of the pipe very smooth or slick which results in gasket fittings being prone to rotation or movement on the pipe.
- Pipe systems must be engineered to allow for pipe movements so to limit fittings movement.



SPRING WASHERS

NOTICE!!

PowerSeal does not warrant products used when the installation does not conform to any of the restrictions listed above. Contact our engineering department if you have questions about using our products on HDPE.

3121AS-PE/ 3122AS-PE

ALL STAINLESS REPAIR CLAMP

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

GASKET: SBR Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -40°F to +200°F per ASTM D2000. Other materials available.

ARMOR PLATE: TType 304 (18-8) Stainless Steel per ASTM A240, recessed and bonded to the gasket.

BOLTS & NUTS: ype 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

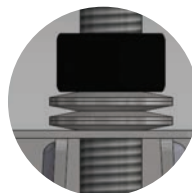
WASHERS: Stainless Steel per ASTM A240, type 304. Special spring type. **LUGS:** Type 304 (18-8) Stainless Steel per ASTM A240.



3121AS-PE
ALL STAINLESS
SINGLE PANEL



3122AS-PE
ALL STAINLESS
DOUBLE PANEL



Made in U.S.A

MEETS
AWWA
C230

Nominal Pipe Size	Model	Letter	Pipe OD Range		Length / List Price				Part number
In			Inches	MM	8"	12"	16"	20"	
2"	3121AS	-	2.35 - 2.63	60 - 67	\$281.10	\$459.70	\$513.80	P.O.A	312120+Length+CA-PE
3"	3121AS	B	3.46 - 3.70	88 - 94	\$328.00	\$522.30	\$612.60		31213B+Length+CA-PE
		C	3.73 - 4.00	95 - 102					31213C+Length+CA-PE
4"	3121AS	A	4.45 - 4.73	113 - 120	\$360.40	\$565.90	\$654.00		31214A+Length+CA-PE
		B	4.74 - 5.14	120 - 131					31214B+Length+CA-PE
	3122AS	A	4.44 - 5.24	113 - 133	\$490.00	\$764.20	\$924.30		31224A+Length+CA-PE
6"	3121AS	B	6.56 - 6.96	167 - 177	\$477.80	\$749.80	\$873.90		31216B+Length+CA-PE
		C	6.84 - 7.24	174 - 184					31216C+Length+CA-PE
	3122AS	A	6.62 - 7.42	168 - 188	\$648.40	\$970.10	\$1,242.20		31226A+Length+CA-PE
8"	3121AS	B	8.54 - 8.94	217 - 227	\$536.60	\$846.90	\$1,006.60		31218B+Length+CA-PE
		C	8.99 - 9.39	228 - 239					31218C+Length+CA-PE
	3122AS	A	8.62 - 9.42	219 - 239	\$722.10	\$1,056.60	\$1,381.70		31228A+Length+CA-PE
10"	3121AS	B	10.64 - 11.04	270 - 280	\$897.10	\$1,718.90	\$1,885.40		312110B+Length+CA-PE
		C	11.04 - 11.44	280 - 291					312110C+Length+CA-PE
	3122AS	A	10.75 - 11.55	273 - 293	\$1,123.80	\$1,847.80	\$2,485.40		312210A+Length+CA-PE
12"	3121AS	B	12.62 - 13.02	321 - 331	\$1,161.50	\$1,948.70	\$2,247.10		312112B+Length+CA-PE
		C	13.10 - 13.50	333 - 343					312112C+Length+CA-PE
	3122AS	A	12.75 - 13.55	324 - 344	\$1,224.80	\$2,027.40	\$2,586.40	\$3,696.90	312212A+Length+CA-PE

HOW TO ORDER: Specify Model Number, Pipe Size with Letter Code, and Width. **EXAMPLE:** 10" Ductile Iron O.D. 11.10 with 12" Clamp Width. **Part Number:** Model+Nominal pipe size+Letter+Length+CA-PE.

3412AS-PE/

ALL STAINLESS SADDLE - DOUBLE STUD BOLT DESIGN



PANEL & LIFTER BAR: TType 304 (18-8) Stainless Steel per ASTM A240.

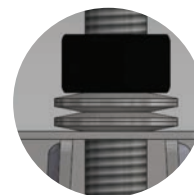
BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

WASHERS: Stainless Steel per ASTM A240, type 304. Special spring type.

LUGS: TType 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.



MEETS
AWWA
C230

Nominal Pipe Size	Pipe OD Range		Model 3412AS-PE		Part number
			Outlet Size / List price		
Inches	Inches	MM	3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT	
3	3.48-3.52	88-90	\$430.70	\$494.80	3412+Nominal pipe size+Outlet size+T+ Outlet Code + (-PE)
4	4.50-4.80	114-122	\$442.30	\$494.80	
5	5.54-5.84	141-148	\$463.80	\$542.00	
6	6.63-6.90	168-175	\$516.90	\$553.60	
8	8.63-9.05	219-230	\$556.90	\$604.60	
10	10.75-11.10	273-282	\$791.60	\$864.70	
12	12.75-13.20	324-335	\$791.60	\$864.70	

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **Part Number:**

3412+Nominal pipe size+Outlet size+T+Outlet Code+(-PE), 3412040075TB-PE.

OUTLET CODE														
Outlet	3/4		1		1 1/4		1 1/2		2		2 1/2	3	4	
Outlet size	075		100		125		150		200		250	300	400	
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	NPT	NPT	NPT
Outlet code	C	B	E	D	G	F	I	H	K	J	N	P	M	M

IP = NPT CC=AWWA

3414AS-PE

ALL STAINLESS WIDE RANGE SADDLE

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

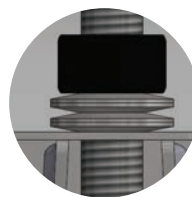
BOLTS & NUTS: T Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

WASHERS: Stainless Steel per ASTM A240, type 304. Special spring type.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.



MEETS
AWWA
C230

Nominal Pipe Size		Pipe OD Range		Width		Outlet Size / List price		Part number
Inches	MM	Inches	MM	In	MM	3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT	
4	100	4.50-5.10	114-130	8	200	\$467.20	\$548.10	3414+Nominal pipe size+Outlet size+T+ Outlet Code+(-PE)
5	125	5.54-6.14	141-156			\$549.70	\$602.20	
6	150	6.63-7.23	168-184			\$557.30	\$615.10	
8	200	8.63-9.83	219-250			\$618.80	\$652.70	
10	250	10.75-11.95	273-304			\$879.60	\$960.80	
12	300	12.75-13.95	324-354			\$879.60	\$960.80	

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **Part Number:** 3414+Nominal pipe size+Outlet size+T+Code +(-PE), 3414080075TB-PE .

OUTLET CODE													
Outlet	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4					
Outlet size	075	100	125	150	200	250	300	400					
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	NPT	NPT
Outlet code	C	B	E	D	G	F	I	H	K	J	N	P	M

IP = NPT CC=AWWA

3416AS-PE

ALL STAINLESS SADDLE LARGER DIAMETERS



PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

WASHERS: Delrin per ASTM D6778.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Mat gasket with patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal, with a temperature range of -40°F to +248°F.



Nominal Pipe Size		Letter	Pipe OD Range		Outlet Size / List price			Part number
					8" Wide / 200 mm		12" Wide / 300 mm	
Inches	MM		Inches	MM	3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT	2 1/2 CC - 2 1/2 NPT 3 CC - 3 NPT	
14	350	A	14.00-15.20	356-386	\$1,286.00	\$1,479.10	\$2,952.00	3414+Nominal pipe size+Outlet size+T+ Outlet Code+(-PE)
		B	15.30-16.50	389-419				
16	400	A	16.60-17.80	422-452	\$1,286.00	\$1,479.10	\$2,952.00	
18	450	A	18.00-19.20	457-488	\$1,496.20	\$1,804.70	\$3,184.40	
		B	19.50-20.70	495-526				
20	500	A	21.60-22.80	549-579	\$1,679.60	\$2,240.00	\$3,713.10	
24	600	A	24.00-25.20	610-640	\$1,773.60	\$2,333.10	\$3,740.90	
		B	25.80-27.00	655-686				

* Larger sizes consult factory.

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **Part Number:** 3414+Nominal pipe size+Outlet size+T+ Outlet Code+ (-PE), 341616A075TB.

Sizes above 30" are supplied with a drop in bolt design.

NOTE: Other ranges, tap sizes available upon request.

OUTLET CODE													
Outlet	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4					
Outlet size	075	100	125	150	200	250	300	400					
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	NPT	NPT
Outlet code	C	B	E	D	G	F	I	H	K	J	N	P	M

IP = NPT CC=AWWA

3422AS-PE

DOUBLE STRAP ALL STAINLESS SADDLE "WIDE RANGE"

PANEL & LIFTER BAR: Type 304 (18-8) Stainless Steel per ASTM A240.

BOLTS & NUTS: Type 304 (18-8) Stainless Steel per ASTM A193 and A194. NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

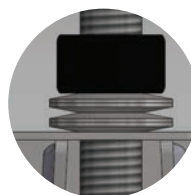
WASHERS: Stainless Steel per ASTM A240, type 304. Special spring type.

LUGS: Type 304 (18-8) Stainless Steel per ASTM A240.

OUTLET: Type 304 (18-8) Stainless Steel per ASTM A276.

GASKET: NBR per ASTM D2000; Patented TwinSeal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

STRAP WIDTH: 2".



MEETS
AWWA
C230

Nominal Pipe Size		Pipe OD Range		Letter	Outlet Size / List price		Part number
Inches	MM	Inches	MM		3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT	
4	100	4.35-5.65	111-144	A	\$538.00	\$644.80	3422+Nominal pipe size +Letter+Outlet size+T + Outlet Code+(-PE)
5	125	5.40-6.40	137-163	A	\$646.70	\$708.50	
6	150	6.45-7.75	164-197	A	\$655.60	\$723.60	
8	200	8.50-9.80	216-249	A	\$728.00	\$767.90	
10	250	10.25-11.55	260-293	A	\$1,034.80	\$1,130.40	
		10.95-12.35	278-314	B	\$1,034.80	\$1,130.40	
12	300	12.30-13.60	312-345	A	\$1,034.80	\$1,130.40	
		13.14-14.44	334-367	B	\$1,034.80	\$1,130.40	
14	350	14.00-15.30	356-389	A	P.O.A	P.O.A	
		15.40-16.70	391-424	B			
16	400	16.20-17.50	412-445	A			
		17.90-19.20	455-488	B			
18	450	19.20-20.40	488-518	A			
20	500	21.50-22.80	546-579	A			
24	600	25.70-27.00	653-686	A			

HOW TO ORDER: Choose nominal pipe sizes x outlet size and thread configuration. **Part Number:** 3422+Nominal pipe size +Letter+Outlet size+T+ Outlet Code+(-PE), 342212A100TD-PE.

NOTE: Other ranges, tap sizes available upon request.

OUTLET CODE													
Outlet	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4					
Outlet size	075	100	125	150	200	250	300	400					
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	NPT	NPT
Outlet code	C	B	E	D	G	F	I	H	K	J	N	P	M

IP = NPT CC=AWWA

3417DI-PE

DUCTILE IRON SADDLE WITH STRAPS

BODY CASTING: Ductile Iron per ASTM A536.

STRAPS: Type 304 (18-8) Stainless Steel per ASTM A240.

STUD BOLTS: Type 304 (18-8) Stainless Steel per ASTM A193.

NUTS: Type 304 (18-8) Stainless Steel per ASTM A194.

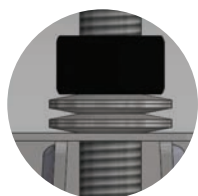
NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and/or galling.

GASKET: NBR per ASTM D2000 with Unique dual O-Ring design permanently bonded in recessed casting, with a temperature range of -40°F to +248°F.

FINISH: Epoxy.



MEETS
AWWA
C230



Nominal Pipe Size	Letter	Pipe OD Range		Model 3417DI		Part number
				Outlet Size / List price		
Inches		Inches	MM	3/4 CC - 3/4 NPT 1 CC - 1 NPT	1 1/4 CC - 1 1/4 NPT 1 1/2 CC - 1 1/2 NPT 2 CC - 2 NPT	
2	A	2.38-2.50	61-64	\$325.30	\$337.30	3417+Nominal pipe size+Outlet size+H + Outlet Code+(- PE)
3	B	3.45-4.05	89-103	\$334.30	\$345.30	
4	A	4.00-4.50	102-114	\$370.70	\$390.70	
	B	4.74-5.63	120-143			
6	C	6.63-6.90	168-175	\$404.80	\$427.80	
8	C	8.63-9.05	219-229	\$584.30	\$610.40	
10	A	10.00-11.10	254-282	\$644.20	\$672.80	
12	A	12.00-13.20	305-335	\$705.90	\$738.10	

HOW TO ORDER: Choose nominal pipe size x outlet size and thread configuration. **Part Number:** 3417+Nominal pipe size+Outlet size+H + Outlet Code+(-PE), 341704B075HB-PE **NOTE:** Please advise when saddles are being ordered for use on C900 pipe.

*Available in 1.25 CC/NPT + 1.5 NPT.

OUTLET CODE														
Outlet	3/4		1		1 1/4		1 1/2		2		2 1/2		3	4
Outlet size	075		100		125		150		200		250		300	400
Thread standard	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	CC	NPT	NPT	NPT	NPT
Outlet code	C	B	E	D	G	F	I	H	K	J	N	P	M	

IP = NPT CC=AWWA

3480AS-PE/MJ-PE 3480CS-PE/CSMJ-PE

STAINLESS STEEL TAP SLEEVE W/FLANGE OUTLET

FLANGE: Type 304 (18-8) Stainless Steel or A36 Carbon Steel per AWWA C207.

PANEL: Type 304 (18-8) Stainless Steel per ASTM A240.

SHELL GASKET: SBR per ASTM D2000 Chek-O-Seal with multi o-ring sealing ribs from 100% new rubber to ensure performance under varying pressures with superior storage characteristics. Suitable for mild acids, water and salt media with a temperature range of -25°F to +200°F per ASTM D2000. Other materials available.

BRANCH GASKET: NBR per ASTM D2000 with Hydro Twin-Seal® dual o-ring design incorporating both hydrostatic and mechanical forces to affect a dynamic seal.

BOLTS & NUTS : Type 304 (18-8) Stainless Steel per ASTM A193 and A194.

NOTE: Hex nuts are furnished with fusion bonded coating to prevent seizing and galling.

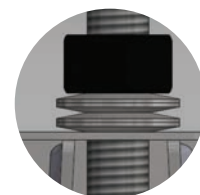
WASHERS: Stainless Steel per ASTM A240, type 304. Special spring type.



3480 AS-PE / CS-PE
STAINLESS STEEL
TAPPING SLEEVE W/
FLANGE OUTLET



3480 MJ-PE / MJ CS-PE
STAINLESS STEEL TAPPING
SLEEVE W/ MECHANICAL
JOINT OUTLET



MEETS
AWWA
C230

Nominal Pipe Size	Letter	Branch Size	Pipe OD Range		Model 3480CS-PE		Model 3480AS-PE		Model 3480MJCS-PE		Model 3480MJ-PE					
			Inches	MM	List Price	Part number	List Price	Part number	List Price	Part number	List Price	Part number				
4	A	3"	4.50-4.70	114-119	N/A	3480+Nominal Pipe Size+ Range+Branch size+CS-PE	\$2,444.30	3480+Nominal Pipe Size+ Range+Branch size+AS-PE	N/A	3480+Nominal Pipe Size+ Range+Branch size+MJCS-PE	\$2,694.30	3480+Nominal Pipe Size+ Range+Branch size+MJ-PE				
	B		4.70-4.90	119-124												
6	B	3"	6.60-7.00	168-178	N/A		\$2,684.10		N/A		\$2,934.10					
	C	4"	6.90-7.30	175-185	\$2,063.60		\$2,684.10		\$2,193.60		\$2,934.10					
8	B	3"	8.60-9.05	218-230	N/A		\$2,929.90		N/A		\$3,179.90					
		4"			\$2,252.00		\$2,929.90		\$2,382.00		\$3,179.90					
	C	6"	9.05-9.45	230-240	\$2,362.40		\$3,201.30		\$2,542.40		\$3,701.30					
10	B	3"	10.70-11.10	272-282	N/A		\$3,137.90		N/A		\$3,387.90					
		4"			\$2,430.40		\$3,137.90		\$2,560.40		\$3,387.90					
	C	6"	11.10-11.50	282-292	\$2,574.90		\$3,364.20		\$2,754.90		\$3,864.20					
		8"			\$3,220.70		\$4,333.10		\$3,505.70		\$5,263.10					
12	B	3"	12.50-12.90	318-328	N/A		\$3,782.20		N/A		\$4,032.20					
		4"			\$2,814.40		\$3,782.20		\$2,944.40		\$4,032.20					
		6"			\$2,978.40		\$4,159.60		\$3,158.40		\$4,659.60					
		8"			\$3,635.80		\$5,078.30		\$3,920.80		\$6,008.30					
	C	10"	13.20-13.60	335-345	\$5,546.50		\$7,591.10		\$6,510.50		\$8,911.10					

HOW TO ORDER: Choose the Pipe Size Letter Code corresponding to a Pipe OD Range that covers the Pipe OD to be tapped and then specify the desired branch size. **NOTE:** Other ranges, tap sizes available upon request.

3530

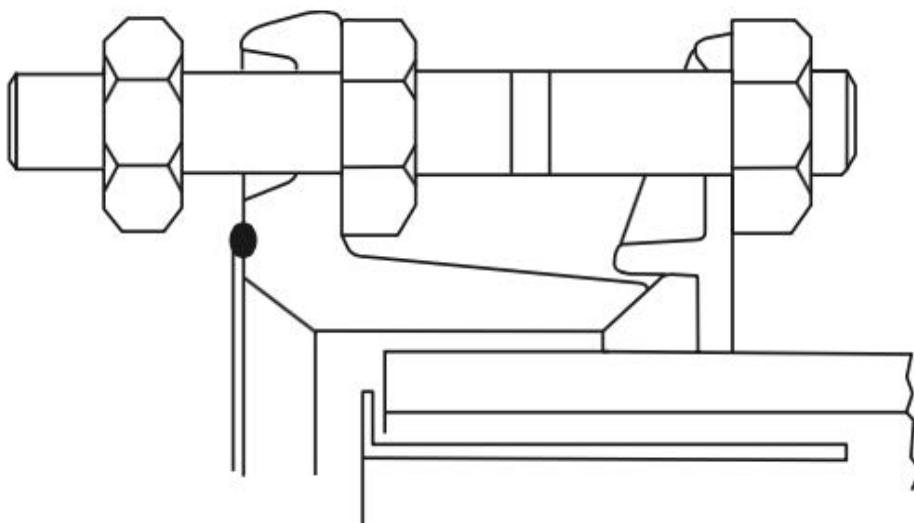
HDPE STIFFENER INSERT

For the support of interior walls on
HDPE pipe applications

- * Corrosive resistant material
- * Stable support of pipe wall for pipe connections
- * Accurate pipe ID sizing ensures consistent outside diameter
- * Positive support of pipe wall without pipe joint interference

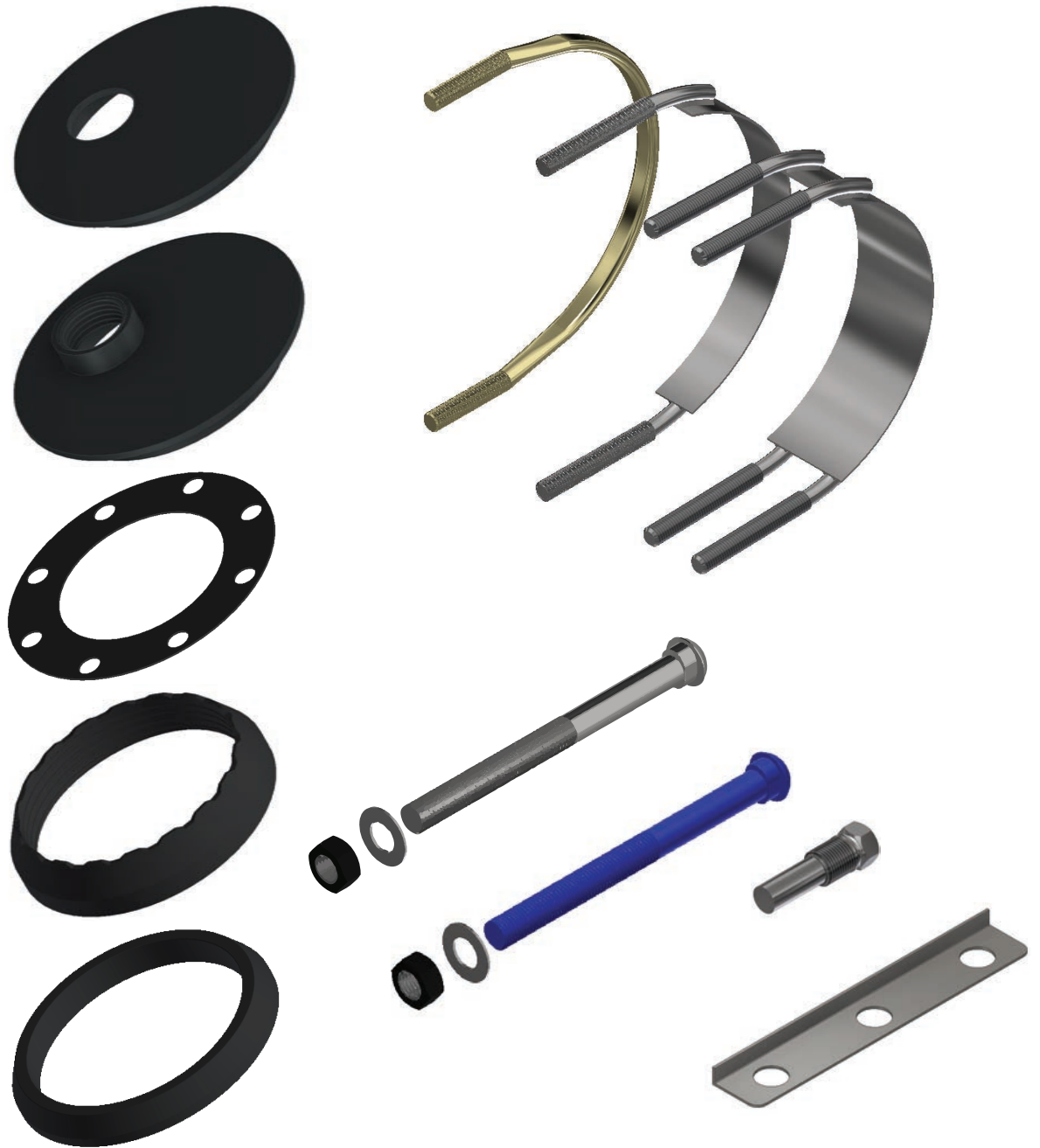


MEETS
AWWA
C230



PowerSeal only warrants the use of PowerSeal Stiffeners
with PowerSeal Couplings and Flange Adapters.

A close-up photograph of a blue industrial valve or pump component. The component features a large, circular flange with multiple hexagonal bolts. The surface is painted a vibrant blue and shows signs of wear and rust. The background is a blurred, light-colored surface.



PARTS



PowerSeal
PIPELINE PRODUCTS CORPORATION

REPAIR CLAMPS PARTS

Part Number	Component Description	Model Number	Product Size	List Price	Unit
V3151001	Neoprene Sheet Gasket	3151	All Sizes	\$ 0.15	Square Inch
		3151AS			
		3152			
		3153			
V3151002	Waffle pattern Gasket (NBR)	3151	All Sizes	\$ 0.50	Square Inch
		3151AS			
		3152			
		3153			
V3100501	Check-O-Seal Gasket (SBR)	3110	All Sizes	\$ 0.50	Square Inch
		3111			
		3121			
		3122			
		3123			
		3121AS			
		3122AS			
		3123AS			
V3100302	5/8 X 6 Carriage Bolt, Nut & Washers	3110	All Sizes	\$ 14.30	Each
		3111			
		3142			
V3490001	5/8 X 6 Stainless Steel Carriage Bolt, Nut & Washer	3110	All Sizes	\$ 26.80	Each
		3111			
		3142			
V3100401	5/8 X 6 Track Head Bolt & Nut	3121	All Sizes	\$ 8.70	Each
		3122			
V3100403	5/8 X 7 Track Head Bolt & Nut	3123	All Sizes	\$ 8.80	Each
		3141			
V3100402	5/8 X 6 Stainless Steel Track Head Bolt & Nut	3121	All Sizes	\$ 16.00	Each
		3122			
V3100402S	5/8 X 7 Stainless Steel Track Head Bolt & Nut	3123	All Sizes	\$ 25.20	Each
		3141			
V3151101	3/8 X 3 Carriage Bolt, Nut & Washer	3140	1/2" - 1 1/2"	\$ 12.00	Each
		3151			
		3152			
V3151102	3/8 x 3 Stainless Steel Carriage Bolt, Nut & Washers	3140	1/2" - 1 1/2"	\$ 21.80	Each
		3151			
		3152			
		3153			
V3151103	7/16 X 4 1/4 Carriage Bolt, Nut & Washer	3140	2" - 5"	\$ 13.40	Each
		3151			
		3152			
		3153			

Part Number	Component Description	Model Number	Product Size	List Price	Unit
V3151103A	7/16 X 4 1/2 Stainless Steel Carriage Bolt, Nut & Washer	3140	2" - 12"	\$ 23.60	Each
		3151			
		3152			
		3153			
V3151104	7/16 X 5 Carriage Bolt, Nut & Washer	3140	6" - 12"	\$ 11.90	Each
		3151			
		3152			
		3153			
V3100304	Gasket Adhesive	All Clamps	All Sizes	POA	Pint

COMPLETE CIRCLE REPAIR CLAMPS BOLT QUANTITY CHART

Model	Pipe Size	Repair Clamp Description	Width									Replacement Bolt Description
			6	8	10	12	16	20	24	30	36	
3121	All Sizes	IRON LUG SINGLE PANEL	2	3	4	4	6	8	8	10	12	5/8 X 6 & 7 Track Head Bolt & Nut
3121CS	All Sizes	CAST STAINLESS LUG SINGLE PANEL	-	3	-	4	6	-	9	10	-	5/8 X 6 & 7 Stainless Steel Track Head Bolt & Nut
3121AS	All Sizes	ALL STAINLESS SINGLE PANEL	2	2	3	3	4	5	6	8	9	Not Applicable
3121ASLW	All Sizes	ALL STAINLESS LIGHT WEIGHT	2	2	-	3	-	-		-	-	Not Applicable
3122	All Sizes	IRON LUG DOUBLE PANEL	4	6	8	8	12	16	16	20	24	5/8 X 6 & 7 Track Head Bolt & Nut
3122AS	All Sizes	ALL STAINLESS DOUBLE PANEL	4	4	6	6	8	10	12	16	18	Not Applicable
3122AS-HP	4" - 16"	ALL STAINLESS HIGH PRESSURE	-	-	-	-	10	14	16	20	-	5/8 X 7 Stainless Steel Track Head Bolt & Nut
3122AS-HP	18" - 22"	ALL STAINLESS HIGH PRESSURE	-	-	-	-	10	14	16	20	-	3/4 X 7 Stainless Steel Track Head Bolt & Nut
3123	All Sizes	IRON LUG TRIPLE PANEL	-	-	-	-	18	24	24	30	36	5/8 X 6 & 7 Track Head Bolt & Nut
3123AS	All Sizes	ALL STAINLESS TRIPLE PANEL	-	-	-	-	12	15	18	24	27	Not Applicable

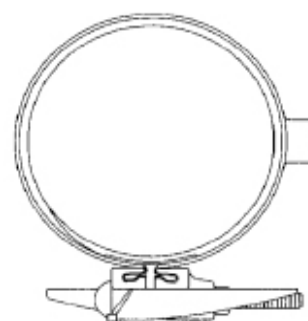
SMALL DIAMETER AND SPECIALTY REPAIR CLAMPS BOLT QUANTITY CHART

Model	Pipe Size	Repair Clamp Description	Width								Replacement Bolt Description
			8	10	12	16	20	24	30	36	
3140	3/4" - 1 1/2"	SMALL DIAMETER COLLAR LEAK	1	-	-	2	-	-	-	-	3/8 X 3 Carriage Bolt, Nut & Washer
3140	2" - 2 1/2"	SMALL DIAMETER COLLAR LEAK	1	-	-	2	-	-	-	-	7/16 X 4 1/4 Carriage Bolt, Nut & Washer
3141	All Sizes	IRON LUG COLLAR LEAK	-	-	-	2	3	-	-	-	5/8 X 6 Track Head Bolt & Nut
3143AS	All Sizes	ALL STAINLESS COLLAR LEAK	-	-	-	2	2	-	-	-	Not Applicable
3146	1/2" - 1 1/2"	POWERCOPPER CLAMP	1	-	-	-	-	-	-	-	3/8 X 3 Carriage Bolt, Nut & Washer
3146	2" - 2 1/2"	POWERCOPPER CLAMP	1	-	-	-	-	-	-	-	7/16 X 4 Carriage Bolt, Nut & Washer
3146	3" - 4"	POWERCOPPER CLAMP	1	-	-	-	-	-	-	-	Not Applicable
3151	1/2" -1 1/2"	PATCH CLAMP	1	-	-	2	-	3	-	4	3/8 X 3 Carriage Bolt, Nut & Washer
3151	2" - 5 "	PATCH CLAMP	1	-	-	2	-	3	-	4	7/16 X 4 1/4 Carriage Bolt, Nut & Washer
3151	6" - 12"	PATCH CLAMP	1	-	-	2	-	3	-	4	7/16 X 5 Carriage Bolt, Nut & Washer
3151AS	All Sizes	ALL STAINLESS PATCH CLAMP	-	1	-	-	2	-	-	3	Not Applicable
3151HD	All Sizes	HEAVY DUTY PATCH CLAMP	-	-	2	-	-	-	4	-	5/8 X 6 Track Head Bolt & Nut
3152 - 3153	1/2" - 1 1/2"	SMALL DIAMETER COMPLETE CIRCLE	1	-	-	2	-	3	-	4	3/8 X 3 Carriage Bolt, Nut & Washer
3152 - 3153	2"	SMALL DIAMETER COMPLETE CIRCLE	1	-	-	2	-	3	-	4	7/16 X 4 1/4 Carriage Bolt, Nut & Washer

REPAIR CLAMPS ADD-ON LIST PRICES

Outlet Size	Thread Type	Add-On List Price	End Code	Minimum Pipe OD	Minimum Clamp Length
3/4"	CC (AWWA)	\$ 99.90	B	2.38"	6"
1"	CC (AWWA)	\$ 99.90	D	2.38"	6"
1 1/4"	CC (AWWA)	\$ 156.60	F	2.88"	8"
1 1/2"	CC (AWWA)	\$ 156.60	H	3.50"	8"
2"	CC (AWWA)	\$ 191.70	J	4.50"	8"
3/4"	IP (NPT)	\$ 99.90	C	2.38"	6"
1"	IP (NPT)	\$ 99.90	E	2.38"	6"
1 1/4"	IP (NPT)	\$ 156.60	G	2.88"	8"
1 1/2"	IP (NPT)	\$ 156.60	I	3.50"	8"
2"	IP (NPT)	\$ 156.60	K	3.50"	8"
3"	IP (NPT)	\$ 419.40	O	6.63"	12"

To add-on a Tapped Outlet to a Repair Clamp, change the model number as noted above and specify the Tapped Clamp, Outlet Size and Thread Type. Combine the Clamp and Outlet List Prices for a total price. Example: 3121 6C X 12 Tapped Clamp with a 3/4"CC Outlet. Order 3131-6C X 12 X 3/4CC. Part Number: 313106C120AB



Component Description	Part Number	Product Size	List Price	Unit
Fluoro-coat bolt and nut list add on (5/8")	-8	All sizes	\$ 4.70	Per Bolt
Electrical Conductivity Buttons	-3	8 - 16" Width	\$ 45.60	Per Clamp
Electrical Conductivity Buttons	-3	20 - 36"	\$ 55.50	Per Clamp
Never Gall bolt and nut list add on (5/8")	-NG	All sizes	\$ 7.70	Per bolt

Model Number	
Repair Clamp	Tapped Clamp
3121	3131
3122	3132
3121AS	3131AS
3122AS	3132AS

How to order: Add part number -3 at end of part number

Example: 312106C120AA-SB3

BELL JOINT PARTS

Component Description	Model Number	Product Size	Part Number	List Price	Unit
5/8 X 12 Double End Stud Bolt & Nut	3232	3"-12"	V3232001	\$ 36.00	Each
3/4 X 15 Double End Stud Bolt & Nut	3232*	16"-30"	V3232002	\$ 61.00	Each
1/2 X 1 3/4 Hex Head Segment Bolt & Nut	3232*	4"-8"	V3231005	\$ 14.80	Each
5/8 X 2 Head Segment Bolt & Nut	3232	12"-30"	V3231003	\$ 23.00	Each
5/8 X 1 3/4 T-Head Segment Bolt & Nut	3232	12"-30"	V3231004	\$ 24.20	Each
3/4 X 18 Double End Stud Bolt & Nut**	3232	14"-20"	V3232006	\$ 48.80	Each
3/4 X 20 Double End Stud Bolt & Nut**	3232	24"-30"	V3232007	\$ 45.60	Each
Bell Joint Gasket	3232	3"	V3230031	\$ 64.20	Each
Bell Joint Gasket	3232	4"	V3230041	\$ 64.20	Each
Bell Joint Gasket	3232	6"	V3230061	\$ 103.30	Each
Bell Joint Gasket	3232	8"	V3230081	\$ 133.40	Each
Bell Joint Gasket	3232	10"	V3230101	\$ 165.20	Each

Component Description	Model Number	Product Size	Part Number	List Price	Unit
Bell Joint Gasket	3232	12"	V3230121	\$ 197.00	Each
Bell Joint Gasket	3232	14"	V3230141	\$ 215.10	Each
Bell Joint Gasket	3232	16"	V3230161	\$ 233.20	Each
Bell Joint Gasket	3232	18"	V3230181	\$ 267.20	Each
Bell Joint Gasket	3232	20"	V3230201	\$ 301.10	Each
Bell Joint Gasket	3232	24"	V3230241	\$ 392.10	Each
Bell Joint Gasket	3232	30"	V3230301	\$ 450.90	Each

* Also use on Model 3233 A/C Coupling Leak Repair Clamp

** When ordering these sizes for use on C900 installations you must use these bolts

BELL JOINT CLAMP BOLT QUANTITY CHART

Repair Clamp Description	Model Number	Pipe Size	Clamp Size												Replacement Bolt Description
			3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	
Caulked and Push-On Cast Iron or Ductile Iron Pipe Joints	3232	4" - 8"	-	4	4	4	-	-	-	-	-	-	-	-	1/2 X 1 3/4 Segment Bolt & Nut
		12"-30"	-	-	-	-	-	6	6	6	6	8	8	8	5/8 X 1 3/4 T-Head Bolt & Nut
			-	-	-	-	-	6	6	6	6	8	8	8	5/8 X 2 Hex Head Bolt & Nut
		3"-12"	4	4	6	6	8	9	-	-	-	-	-	-	5/8 X 12 Double End Stud Bolt & Nut
C900 Pipe Joints	3232	16"-30"	-	-	-	-	-	-	9	9	9	12	12	16	3/4 X 15 Double End Stud Bolt & Nut
		14"-20"	-	-	-	-	-	-	9	9	9	12	12	16	3/4 X 18 Double End Stud Bolt & Nut
		24"-30"	-	-	-	-	-	-	-	-	-	-	12	16	3/4 X 20 Double End Stud Bolt & Nut
Class 150 A/C Coupling Pipe Joints	3233	4"-8"	-	4	4	4	-	-	-	-	-	-	-	-	1/2 X 1 3/4 Segment Bolt & Nut
			-	4	6	6	-	-	-	-	-	-	-	-	3/4 X 15 Double End Stud Bolt & Nut

SADDLE & SLEEVE PARTS

SERVICE SADDLE AND TAPPING SLEEVES

Component Description	Model Number	Product Size	Part Number	List Price	Unit
5/16 X 1 1/2 Bronze Screw & Nut	3401 - 3402	1 1/4" - 3"	V3401002	\$ 12.60	Each
3/8 X 2 Bronze Screw & Nut	3401	3 1/2" - 8"	V3401003	\$ 9.30	Each
	3403	10" - 12"			
3/8 X 3 Bronze Screw, Nut & Washer	3401	4"-12"	V3401011	\$ 11.90	Each
	3403	All Sizes			
1/2 X 3 Bronze Hex Head Bolt & Washer	3407	All Sizes	V3401010	\$50.00	Each
Small TwinSeal Gasket (1/2" - 1" Outlets)	Bronze Saddle	All Sizes	V3401004	\$ 4.70	Each
Large TwinSeal Gasket (1 1/4" - 2" Outlets)	Bronze Saddle	All Sizes	V3401005	\$ 12.20	Each
3/4 X 9 Alloy Track Head Bolt & Nut	3460/3490CS	8-24"/14-24"	V3460002	\$ 22.30	Each
3/4 X 9 Stainless Steel Tack Head Bolt & Nut	3460/3490AS	8-24"/14-24"	V3460003	\$ 31.60	Each
5/8 X 7 Alloy Track Head Starter Bolt, Nut & Washer	3460/3490CS	4-6"/4-16"	V3100403	\$ 8.60	Each

Component Description	Model Number	Product Size	Part Number	List Price	Unit
5/8 X 7 Stainless Steel Track Head Starter Bolt, Nut & Washer	3460AS/3490	4-16"	V3490001A	\$ 20.10	Each
Flange Face Gasket	3480/3490/3460	2"	V34900002	\$ 16.20	Each
Flange Face Gasket	3480/3490/3460	3"	V34900003	\$ 17.60	Each
Flange Face Gasket	3480/3490/3460	4"	V34900004	\$ 20.70	Each
Flange Face Gasket	3480/3490/3460	6"	V34900006	\$ 21.60	Each
Flange Face Gasket	3480/3490/3460	8"	V34900008	\$ 29.50	Each
Flange Face Gasket	3480/3490/3460	10"	V34900010	\$ 47.80	Each
Flange Face Gasket	3480/3490/3460	12"	V34900012	\$ 58.70	Each
Flange Face Gasket	3480/3490/3460	16"	V34900016	\$ 138.90	Each

TAPPING SLEEVE BOLT QUANTITY CHART

MODEL	Pipe Size	Outlet Size								Bolt Size
		2	3	4	6	8	10	12	16	
3460 CARBON STEEL SLEEVE	4" - 6"	8	8	8	8					5/8" X 7"
	8" - 24"	6	6	6	6	8	10	10	14	3/4" X 9"
SLEEVE WIDTH 3460		12	12	12	12	16	20	20	28	
3490/3460 ALL STAINLESS STEEL	4" - 12"	8	8	10	10	12	16	20		5/8" X 7"
	14" - 16"	8	8	10	10	12	16			5/8" X 7"
	14" - 16"							20	24	3/4" X 9"
	18" - 24"	8	8	10	10	12	16	20	24	3/4" X 9"
SLEEVE WIDTH 3490		12	12	16	16	20	24	30	36	

Model	Pipe Size	Outlet Size							Stud Size
		2	3	4	6	8	10	12	
3480	4" - 14"	6	6	8	8	10			5/8"
	10" - 14"						12	14	3/4"
	16" - 24"	9	9						5/8"
	16" - 18"							14	5/8"
	16" - 24"			15	15	18	18		3/4"
	20" - 24"							18	3/4"
SLEEVE WIDTH 3480		12	12	16	16	20	20	24	

COUPLING PARTS

Component Description	Model Number	Product Size	Part Number	List Price	Unit
5/8 X 3 T-Head Bolt & Nut	3521	4"	V3500001	\$ 14.80	Each
5/8 X 5 3/4 T-Head Bolt & Nut			V3500004	\$ 23.20	Each
5/8 X 4 1/2 Alloy Track Head Bolt & Nut	3520	6" - 12"	V3450001	\$ 18.20	Each
	3521				Each
3/4 X 3 1/2 Hex Head Bolt & Nut	3521	6" - 8"	V3500002	\$ 19.50	Each
7/8 X 4 Hex Head Bolt & Nut		10" - 12"	V3500003	\$ 29.80	Each
5/8 X 7 Alloy Track Head Bolt & Nut	3501	2" - 2 1/2"	V3100403	\$ 8.20	Each
5/8 X 9 1/2 Alloy Track Head Bolt & Nut		3" - 10"	V3500006	\$ 14.60	Each
5/8 X 9 1/2 Stainless Steel Track Head Bolt & Nut			V3500006S	\$ 37.30	Each
5/8 X 11 Alloy Track Head Bolt & Nut	3501/3506	12" - 20"/2"-6"	V3500007	\$ 14.90	Each
5/8 X 10.5 Stainless Steel Track Head Bolt & Nut			V3500007S	\$ 40.30	Each
5/8 X 15 Alloy Track Head Bolt & Nut	3506	8" - 10"	V3500020	\$ 25.80	Each
5/8 X 15 Stainless Steel Track Head Bolt & Nut			V3500020S	\$ 52.00	Each
5/8 X 16 Alloy Track Head Bolt & Nut	3501/3506	24" - 30"/12"-14"	V3500008	\$ 15.30	Each
5/8 X 16 Stainless Steel Track Head Bolt & Nut			V3500008S	\$ 46.70	Each
3/4 X 24 Alloy Track Head Bolt & Nut	3501	36" - 48"	V3500023	\$ 43.80	Each
3/4 X 24 Stainless Steel Track Head Bolt & Nut			V3500023S	\$ 133.10	Each
3/4 x 18 Alloy Track Head Bolt & Nut	3506	16"	V3500022	\$ 43.00	Each
3/4 x 18 Stainless Steel Track Head Bolt & Nut			V3500022S	\$ 135.10	Each
3/8 NPT Stainless Steel Anchor Stud for Adapters	3520	4" - 12"	V35210AS	\$ 184.40	Each
	3521				Each
O-Ring For Flange Adapter	3521	4"	V35211041	\$ 36.00	Each
O-Ring For Flange Adapter		6"	V35211061	\$ 38.00	Each
O-Ring For Flange Adapter		8"	V35211081	\$ 38.50	Each
O-Ring For Flange Adapter		10"	V3521101	\$ 42.80	Each
O-Ring For Flange Adapter		12"	V3521121	\$ 51.90	Each
End Cap (Only) with 2" NPT Plug	3501	4"	V3500E04	\$ 57.50	Each
End Cap (Only) with 2" NPT Plug		6"	V3500E06	\$ 65.40	Each
End Cap (Only) with 2" NPT Plug		8"	V3500E08	\$ 125.70	Each
End Cap (Only) with 2" NPT Plug		10"	V3500E10	\$ 135.90	Each
End Cap (Only) with 2" NPT Plug		12"	V3500E12	\$ 182.50	Each
3/4 X 11 Alloy Track Head Bolt & Nut	3501		V3500025	\$ 21.60	Each
3/4 X 11 Stainless Steel Track Head Bolt & Nut			V3500025S	\$ 60.70	Each
3/4 X 15 Alloy Track Head Bolt & Nut			V3500024	\$ 22.90	Each
3/4 X 15 Stainless Steel Track Head Bolt & Nut			V3500024S	\$ 68.50	Each

COUPLING / ADAPTER BOLT QUANTITY CHART

Model	Pipe Size	Coupling / Adapter Size																Replacement Bolt Description
		2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36	48	
3501	2" - 2 1/2"	2	2															5/8 X 7 1/2 Track Head Bolt & Nut
	3" - 10"			3	4	5	6	7										5/8 X 9 1/2 Track Head Bolt & Nut
	12" - 14"								8	9								5/8 X 11 Track Head Bolt & Nut
	16" - 20"										10	12	12					3/4 X 11 Track Head Bolt & Nut
	24"													14				3/4 X 15 Track Head Bolt & Nut
	30"														16			3/4 X 18 Track Head Bolt & Nut
	36"-48"															16	20	3/4 X 24 Track Head Bolt & Nut
3501LB	2" - 12"	2	2	3	4	5	6	7	8									5/8 X 16 Track Head Bolt & Nut
	14" - 20"									9	10	12	12					5/8 X 18 Track Head Bolt & Nut
	24"													14				5/8 X 24 Track Head Bolt & Nut
3506	2" - 6"	2		3	4	5												5/8 X 11 Track Head Bolt & Nut
	8" - 10"						6	7										5/8 X 15 Track Head Bolt & Nut
	12" - 14"								8	10								5/8 X 16 Track Head Bolt & Nut
	16"										10							3/4 X 18 Track Head Bolt & Nut
3520	4" - 16"				4	5	6	7	8		10							5/8 X 4 1/2 Track Head Bolt & Nut
3521	4"				8													5/8 X 3 T-Head Bolt & Nut
	4"				4													5/8 X 5 3/4 T-Head Bolt & Nut
	6" - 12"					5	6	7	8									5/8 X 4 1/2 Track Head Bolt & Nut
	6" - 8"					8	8											3/4 X 3 1/2 Hex Head Bolt & Nut
	10" - 12"							12	12									7/8 X 4 Hex Head Bolt & Nut

CAST COUPLINGS- TRANSITION COMPONENTS

Nom Pipe Size	Color Code	Part Number	Gland Price	Part Number	Gasket Price	Part Number	Barrel Price
2	BLUE	V3500201	\$ 24.00	V3500202	\$ 9.10	V3500200	\$ 46.50
2 1/2	BLUE	V3500251	\$ 31.40	V3500252	\$ 11.20	V3500250	\$ 51.80
3A	BLUE	V35003A1	\$ 41.50	V35003A2	\$ 9.60	V3500300	\$ 60.00
3B	BLACK	V35003B1		V35003B2			
3C	GREY	V35003C1		V35003C2			
4AA	GREEN	V35004AA1	\$ 43.20	V3504AA2	\$ 12.10	V3500400	\$ 76.30
4A	BLUE	V35004A1		V35004A2			
4B	BLACK	V35004B1		V35004B2			
4C	GREY	V35004C1		V35004C2			
40D	WHITE	V350040D1		V35040D2			
6AA	GREEN	V35006AA1	\$ 68.80	V3506AA2	\$ 14.60	V3500600	\$ 93.90
6A	BLUE	V35006A1		V35006A2			
6B	BLACK	V35006B1		V35006B2			
6C	GREY	V35006C1		V35006C2			
60D	WHITE	V350060D1		V35060D2			
8AA	GREEN	V35008AA1	\$ 92.90	V3508AA2	\$ 18.90	V3500800	\$ 111.70
8A	BLUE	V35008A1		V35008A2			
8B	BLACK	V35008B1		V35008B2			
8C	GREY	V35008C1		V35008C2			
80D	WHITE	V350080D1		V35080D2			

CAST COUPLINGS- TRANSITION COMPONENTS

Nom Pipe Size	Color Code	Part Number	Gland Price	Part Number	Gasket Price	Part Number	Barrel Price
10A	BLUE	V35010A1	\$ 119.60	V35010A2	\$ 28.30	V3501000	\$ 183.30
10B	BLACK	V35010B1		V35010B2			
10C	GREY	V35010C1		V35010C2			
12A	BLUE	V35012A1	\$ 127.60	V35012A2	\$ 42.80	V3501200	\$ 241.60
12B	BLACK	V35012B1		V35012B2			
12C	GREY	V35012C1		V35012C2			

Nom Pipe Size	Color Code	Part Number	Gland Price	Part Number	Gasket Price	Part Number	Barrel Price
14A	BLUE	V35014A1	\$251.30	V35014A2	\$ 112.80	V3501400	\$ 354.90
14B	BLACK	V35014B1		V35014B2			
14C	GREY	V35014C1		V35014C2			
16A	BLUE	V35016A1	\$ 304.80	V35016A2	\$ 135.20	V3501600	\$ 369.20
16B	BLACK	V35016B1		V35016B2			
16C	GREY	V35016C1		V35016C2			
18A	BLUE	V35018A1	\$ 468.60	V35018A2	\$ 198.80	V3501800	\$ 540.10
18B	BLACK	V35018B1		V35018B2			
18C	GREY	V35018C1		V35018C2			
20A	BLUE	V35020A1	\$ 600.80	V35020A2	\$ 250.70	V3502000	\$ 598.50
20B	BLACK	V35020B1		V35020B2			
20C	GREY	V35020C1		V35020C2			
24A	BLUE	V35024A1	\$ 889.60	V35024A2	\$ 486.80	V3502400	\$ 1,281.20
24B	BLACK	V35024B1		V35024B2			
30A	BLUE	V35030A1	\$ 1,616.20	V35030A2	\$ 692.70	V3503000	\$ 1,839.40
30B	BLACK	V35030B1		V35030B2			
36AA	GREEN	V35036AA1		V35036AA2			
36A	BLUE	V35036A1	\$ 4,273.70	V35036A2	\$ 1,831.60	V3503600	\$ 3,604.40
36B	BLACK	V35036B1		V35036B2			
36C	GREY	V35036C1		V35036C2			
48AA	GREEN	V35048AA1	\$ 4,849.80	V35048AA2	\$ 2,078.50	V3504800	\$ 6,183.40
48A	BLUE	V35048A1		V35048A2			
48B	BLACK	V35048B1		V35048B2			
48C	GREY	V35048C1		V35048C2			

MJ GASKET X DI GASKET

Size	Part Number	List Price
4"	V20-420-30400	\$ 10.40
6"	V20-420-30600	\$ 12.80
8"	V20-420-30800	\$ 17.60
10"	V20-420-31000	\$ 22.00
12"	V20-420-31200	\$ 26.40

GASKET: SBR, with a temperature range of -40°F to +200°F per ASTM D2000. Other material available.
Rubber compound certified to NSF-61.
Meet AWWA C111.

HOW TO ORDER: V20-420-306000 FOR 6" MJ gasket.

W W W . P O W E R S E A L . C O M

F I T T I N G S O L U T I O N S
F O R H A R S H E N V I R O N M E N T S

PowerSeal
701 Pleasant View Drive
Wichita Falls, Texas 76306
USA
Tel: + 1 - 940-716-5636
e-mail: ventas@powerseal.com