



Application & Selection Guide

















Utility Supply (West) Corp.

Fax: 604-381-2147
www.usccanada.com

Phone: 604-381-2146
Toll Free Phone: 855-381-2146



Restraining Pipe




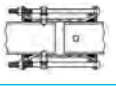

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 111	Cam-Lock Joint Restraint	Restraining pipe ends on MJ fittings	Ductile Iron, Carbon Steel	3"-48" (Ductile Iron) 3"-12" (Steel)	3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12" - 250 PSI (Carbon Steel)
 115	Bell-Lock Joint Restraint	Restraining pipe bells, hydrants, valves and fittings	PVC Ductile Iron	4" thru 24" 4" thru 16"	Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI 4"-6" - 350 PSI, 8" - 300 PSI 10" - 250 PSI 12" - 200 PSI, 14" - 150 PSI, 16" - 100 PSI
 120	Cam-Lock Joint Restraint	Restraining pipe ends on MJ fittings	Steel-sized PVC	3" thru 12"	Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI
 120	Cam-Lock Joint Restraint	Restraining pipe ends on MJ fittings	Ductile-sized PVC	4" thru 36"	Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30" - 150 PSI, 36" - 125 PSI
 136	Bell-Lock Joint Restraint	Restraining pipe bells, hydrants, valves and fittings	PVC	4" thru 8"	Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI
 165	Bell-Lock Joint Restraint	Restraining pipe bells, hydrants, valves and fittings	PVC Ductile Iron	4" thru 24" 4" thru 16"	Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI 4"-6" - 350 PSI, 8" - 300 PSI 10" - 250 PSI 12" - 200 PSI, 14" - 150 PSI, 16" - 100 PSI
 471	Pipe-Lock Joint Restraint Coupling	Connecting plain end Ductile Iron or Steel - Straight	Ductile Iron, Steel	3"-48" (Ductile Iron) 3"-12" (Steel)	3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 472	Pipe-Lock Joint Restraint Coupling	Connecting plain end PVC - Straight	PVC	3" thru 36"	3"-24" - Rated at the pressure rating of the PVC pipe it is used on. 30"-150 PSI, 36"-125 PSI
 473	Pipe-Lock Joint Restraint Coupling	Connecting plain end Ductile Iron or Steel to plain end PVC - Transition	PVC x Ductile Iron PVC x Steel	3"-36" (PVC) 3"-48" (Ductile Iron) 3"-12" (Steel)	3"-24" - Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30"-150 PSI, 36"-125 PSI. (PVC) 3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 474	Pipe-Lock Joint Restraint Coupling	Connecting plain end Ductile Iron or Steel - Reducing	Ductile Iron x Ductile Iron Steel x Steel Steel x Ductile Iron	3"-48" (Ductile Iron) 3"-12" (Steel)	3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 475	Pipe-Lock Joint Restraint Coupling	Connecting plain end PVC - Reducing	PVC x PVC	3" thru 36"	3"-24" - Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30"-150 PSI, 36"-125 PSI.
 476	Pipe-Lock Joint Restraint Coupling	Connecting plain end PVC to plain end Ductile Iron or Steel - Reducing	PVC x Ductile Iron PVC x Steel	3"-36" (PVC) 3"-48" (Ductile Iron) 3"-12" (Steel)	3"-24" - Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30"-150 PSI, 36"-125 PSI. (PVC) 3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 477	Pipe-Lock Joint Restraint Coupling	Weldment only - Straight and Reducing	PVC, Ductile Iron & Steel	3" thru 48"	N/A
 911	Flange-Lock Flange Coupling Adapter	Connecting & restraining to flanged fittings plain end pipe	Ductile Iron, Steel	3"-48"* (Ductile Iron) 3"-12" (Steel)	150 PSI Other ratings available

*Other sleeve lengths available.

†See CC-100 brochure, page 8 for Ductile Iron pressure ratings.



Restraining Pipe, continued

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 920	Flange-Lock Flange Coupling Adapter	Connecting & restraining to flanged fittings plain end pipe	PVC	3" thru 36"	150 PSI Other ratings available
	Rod and Harness	Restraining Steel pipe joints	Steel	2" and larger	Based on application
	AWWA M-11 Style Harness Assembly	Restraining Steel pipe joints	Steel	2" and larger	Based on application
	Anchor Studs	Restraining couplings and flanged coupling adapters	Steel or Ductile Iron	Most sizes	Based on application
 EZW	EZW Restraint Coupling	Restraining rigid pipe to Polyethylene & PVC pipe	Steel/Some Ductile Iron to Polyethylene & PVC pipe	Iron Pipe Size: 1 1/4"-12" Iron Pipe Size to Ductile Iron: 2"-8"	Steel: 300 PSI Polyethylene/PVC: 200 PSI Ductile Iron: 150 PSI

*Other sleeve lengths available.

†See CC-100 brochure, page 8 for Ductile Iron pressure ratings.

Repairing Pipe

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE	WORKING PRESSURE
 221	Full Circle Repair Clamp Low Pressure	Complete breaks, splits, holes in pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 14"	Up to 50 PSI
 226	Full Circle Repair Clamp Single Band	Complete breaks, splits, holes in pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 14"	Up to 300 PSI
 227	Full Circle Repair Clamp Double Band	Complete breaks, splits, holes in pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	3" thru 12"	Up to 175 PSI
 228	Full Circle Repair Clamp Multi-Band	Complete breaks, splits, holes in pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	14" and larger	Up to 150 PSI
 229	Collar-Leak Clamp	Leaking plastic solvent weld belled end pipe	PVC ¹ , Class 160 solvent weld bells,	2" thru 12"	Up to 150 PSI
 238	Full Circle Repair Clamp Tapped Single Band	Leaks at service outlet	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	3" thru 12"	Up to 300 PSI
 239	Full Circle Repair Clamp Double Band, Tapped	Leaks at service outlet	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" thru 12"	Up to 175 PSI
 244	Full Circle Redi-Clamp	Pin hole leaks and punctures; splits in pipe	PVC, Copper, Steel	1/2" thru 2"	Up to 150 PSI

The allowable working pressure of a pipe repair clamp decreases as pipe diameter increases (regardless of manufacturer). For a particular installation, the allowable working pressure is determined by pipe size, pipe type, clamp type and extent of damage, service conditions, environmental conditions and installation workmanship. Higher pressure possible depending on application. Refer to appropriate product catalog for further details. Wall thickness rating must be provided before ordering for proper selection and application. Suitable anchorage must be provided when pipe movement can occur. Standard gaskets are Nitrile (Buna N). Refer to appropriate catalog for further details.



Repairing Pipe, continued

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE	WORKING PRESSURE
 245	Redi-Clamp	Pin hole leaks and punctures	PVC, Copper, Steel	1/2" thru 12"	Up to 250 PSI
 246	Pipe Repair Clamp Multi-Band	Pin hole leaks and punctures	PVC, Copper, Steel	10" and larger	Up to 150 PSI
 247	Redi-Clamp Cast Stainless Steel Lug	Pin hole leaks and punctures; splits in pipe	PVC, Copper, Steel	1/2" thru 2"	Up to 150 PSI
 248	Redi-Clamp Cast Stainless Steel Lug	Pin hole leaks and punctures; splits in pipe	PVC, Copper, Steel	1/2" thru 2"	Up to 250 PSI
 256	Full Circle Repair Clamp Single Band Cast Stainless Steel Lug	Corrosive environments	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 12"	Up to 300 PSI
 257	Full Circle Repair Clamp Double Band Cast Stainless Steel Lug	Corrosive environments	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" thru 12"	Up to 200 PSI
 261	Full Circle Repair Clamp Single Band All Stainless Steel	Complete breaks, splits, holes in pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 12"	Up to 150 PSI
 262	Full Circle Repair Clamp Double Band All Stainless Steel	Complete breaks, splits, holes in pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	3" thru 12"	Up to 150 PSI
 264	Full Circle Repair Clamp Single Band All Stainless Steel, Tapped	Leaks at service outlet	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	3" thru 8"	Up to 150 PSI
 265	Full Circle Repair Clamp Double Band All Stainless Steel, Tapped	Leaks at service outlet	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" thru 12"	Up to 150 PSI
 267	Full Circle Repair Clamp Carbon Steel	High pressure	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" and Larger	4.50" and larger - up to 225 PSI
 268	Full Circle Repair Clamp All Stainless Steel	High pressure	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" and Larger	4.50" and larger - up to 225 PSI
 269	Full Circle Collar Leak Clamp All Stainless Steel	Leaking plastic solvent weld belled end pipe	PVC ¹ --PVC solvent weld bells	2" thru 12"	150 PSI
 274	Bell Joint Leak Clamp	Leaking bell joints	Cast Iron, rubber ring and caulk joint	2" thru 36"	150 PSI
 331	Repair Service Saddle	Leaks at service outlet	Cast Iron and Asbestos Cement	4" thru 12"	Up to 200 PSI

The allowable working pressure of a pipe repair clamp decreases as pipe diameter increases (regardless of manufacturer). For a particular installation, the allowable working pressure is determined by pipe size, pipe type, clamp type and extent of damage, service conditions, environmental conditions and installation workmanship. Higher pressure possible depending on application. Refer to appropriate product catalog for further details. Wall thickness rating must be provided before ordering for proper selection and application. Suitable anchorage must be provided when pipe movement can occur. Standard gaskets are Nitrile (Buna N). Refer to appropriate catalog for further details.







Repairing Pipe, continued

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE	WORKING PRESSURE
 411	Steel Coupling	Replace split or excessively damaged pipe	All types	1/2" and larger	150 PSI Plus, according to design
 418	Bolted Tee Coupling with threaded outlet	Replace split or excessively damaged pipe	Steel, PVC ¹	3/4" thru 2"	150 PSI
 421	Top Bolt - 2 Bolt Coupling System	Joining plain end pipe	Steel, PVC ¹	2" thru 12"	260 PSI
 441	Cast Coupling	Replace split or excessively damaged pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 16"	250 PSI
 442	Cast Coupling 12" Long Sleeves 7" Long Sleeves	Replace split or excessively damaged pipe	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" thru 16"	250 PSI
 461	Quantum Coupling	Joining plain end pipe of all outside diameters within the coupling range.	Steel, Cast Iron, Asbestos Cement, PVC ¹ , other	1 1/2" thru 12"	Up to 250 PSI
 462	Quantum Coupling	Joining plain end pipe of all outside diameters within the coupling range.	Ductile Iron, Steel	4" thru 12"	Up to 250 PSI
 525	Compression Coupling	Replace split or excessively damaged pipe	PVC ¹ , Copper, Steel	1/2" thru 2"	150 PSI
 912	Cast Flanged Coupling Adapter	Replace cracked pipe or spooled flanges	All types	3" thru 12"	Up to 175 PSI
 913	Steel Flanged Coupling Adapter	Replace cracked pipe or spooled flanges	All types	3" and larger	150 PSI

The allowable working pressure of a pipe repair clamp decreases as pipe diameter increases (regardless of manufacturer). For a particular installation, the allowable working pressure is determined by pipe size, pipe type, clamp type and extent of damage, service conditions, environmental conditions and installation workmanship. Higher pressure possible depending on application. Refer to appropriate product catalog for further details. Wall thickness rating must be provided before ordering for proper selection and application. Suitable anchorage must be provided when pipe movement can occur. Standard gaskets are Nitrile (Buna N). Refer to appropriate catalog for further details.

Joining Pipe

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 411	Steel Coupling	Joining plain-end pipe of same outside diameters	All Types	1/2" and larger	150 PSI Plus, according to design
 413	Steel Transition Coupling	Joining pipe of different outside diameters	PVC ¹ , Steel, concrete Steel cylinder, large pipe	2" and larger	150 PSI Plus, according to design
 415	Steel Reducing Coupling	Joining pipe of different outside diameters	Steel, Cast Iron, Asbestos Cement, PVC ¹ , other	4" and larger	150 PSI Plus, according to design
 416	Steel Insulating Coupling	Joining pipe insulating one from the other	Steel, Cast Iron	2" and larger	150 PSI Plus, according to design



Joining Pipe, continued




PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 418	Bolted Tee Coupling With Threaded Outlet	Joining plain-end pipe of same outside diameters	Steel, PVC ¹	3/4" thru 2"	150 PSI Plus, according to design
 421	Two Bolt Coupling System	Joining plain-end pipe of same outside diameters	All Types	2" thru 12"	260 PSI
 441	Cast Coupling	Joining plain-end pipe of same outside diameters	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 16"	250 PSI
 442	Cast Coupling 12" Long Sleeves 7" Long Sleeves	Joining plain-end pipe of same outside diameters	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" thru 16"	250 PSI
 461	Quantum Coupling	Joining plain-end pipe of same outside diameters	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 12"	250 PSI
 462	Quantum Coupling Long Sleeve	Joining plain-end pipe of same outside diameters	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	4" thru 12"	250 PSI
 471	Pipe-Lock Joint Restraint Coupling	Connecting plain-end Ductile Iron to plain-end Ductile Iron - Straight	Ductile Iron, Steel	3"-48" (Ductile Iron) 3"-12" (Steel)	3"-16" : 350 PSI 18"-48" : 250 PSI
 472	Pipe-Lock Joint Restraint Coupling	Connecting plain-end PVC to plain-end PVC - Straight	PVC	3" thru 36"	3"-24" - Rated at the pressure rating of the PVC pipe it is used on. 30"-150 PSI, 36"-125 PSI
 473	Pipe-Lock Joint Restraint Coupling	Connecting plain-end Ductile Iron to plain-end PVC - Transition	PVC x Ductile Iron PVC x Steel	3"-36" (PVC) 3"-48" (Ductile Iron) 3"-12" (Steel)	3"-24" - Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30"-150 PSI, 36"-125 PSI. (PVC) 3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 474	Pipe-Lock Joint Restraint Coupling	Connecting plain-end Ductile Iron to plain-end Ductile Iron - Reducing	Ductile Iron x Ductile Iron Steel x Steel Steel x Ductile Iron	3"-48" (Ductile Iron) 3"-12" (Steel)	3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 475	Pipe-Lock Joint Restraint Coupling	Connecting plain-end PVC to plain-end PVC - Reducing	PVC x PVC	3" thru 36"	3"-24" - Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30"-150 PSI, 36"-125 PSI.
 476	Pipe-Lock Joint Restraint Coupling	Connecting plain end PVC to plain end Ductile Iron or Steel - Reducing	PVC x Ductile Iron PVC x Steel	3"-36" (PVC) 3"-48" (Ductile Iron) 3"-12" (Steel)	3"-24" - Rated at the pressure rating of the PVC pipe it is used on, up to 250 PSI. 30"-150 PSI, 36"-125 PSI. (PVC) 3"-16" - 350 PSI (Ductile Iron) 18"-48" - 250 PSI (Ductile Iron) 3"-12"- 250 PSI (Steel)
 525	Compression Coupling	Joining plain-end pipe of same outside diameters	PVC ¹ , Copper, Steel	1/2" thru 2"	150 PSI
 911	Flange-Lock Flanged Coupling Adapter	Connecting and restraining plain-end pipe to flanged fittings	Ductile Iron	3" thru 48"	150 PSI Plus, according to design
 914	Reducing Flanged Coupling Adapter	Joining plain-end to flanged valves and fittings	All types of pipe	3" and larger	150 PSI Plus, according to design
 920	Flange-Lock Flanged Coupling Adapter	Connecting and restraining plain-end pipe to flanged fittings	PVC	3" thru 36"	150 PSI Plus, according to design



Joining Pipe, continued

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 921	Top Bolt Flanged Coupling Adapter	Joining plain-end pipe to flanged valves and fittings	Steel, Ductile Iron, Cast Iron, PVC, Steel, Cast Iron, and Copper	2" thru 12"	175 PSI
 926	Meter Coupling	Joining plain-end pipe to oval flanged water meters and joining plain-end pipe to flanged valves and fittings	PVC, Copper, Steel, Cast Iron	1 1/2" thru 2"	175 PSI
 932	Insulating Cast Flanged Coupling Adapter	Joining plain-end pipe to flanged valves and fittings	Steel, Cast Iron, Ductile Iron, Large pipe	3" thru 12"	175 PSI
 933	Insulating Steel Flanged Coupling Adapter	Joining plain-end pipe to flanged valves and fittings	Steel, Cast Iron, Ductile Iron, Large pipe	2" and larger	150 PSI Plus, according to design
 971	Dismantling Joint (Non-Restraint Joint)	Valve, meter, pump and other flanged fitting installations	Steel, Ductile Iron, Cast Iron	2" and larger	150 PSI Plus, according to design
 972	Dismantling Joint (Heavy Duty Restraint Joint)	Valve, meter, pump and other flanged fitting installations	Steel, Ductile Iron, Cast Iron	2" and larger	150 PSI Plus, according to design
 973	Dismantling Joint (Restraint Joint)	Valve, meter, pump and other flanged fitting installations	Steel, Ductile Iron, Cast Iron	3" thru 12"	150 PSI Plus, according to design
 975	Dismantling Joint (Restraint Joint)	Valve, meter, pump and other flanged fitting installations	Steel, Ductile Iron, Cast Iron	2" and larger	150 PSI Plus, according to design
 EZW	Maxi-Grip EZW Restraint Coupling	Restraining rigid pipe to PE and PVC pipe	Steel, some Ductile Iron to PE and PVC pipe	IPS 1 1/4" thru 12"; IPS to D.I. 2" thru 8"	Steel = 300 PSI; PE/PVC=200 PSI; Ductile Iron = 150 PSI
 R441	Cast Reducing Coupling	Joining pipe of different outside diameters	Steel, Cast Iron, Asbestos Cement, PVC ¹ , Ductile Iron, other	2" thru 12"	250 PSI

Capping Pipe

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 481	Steel End Cap Seal Only	Capping pipe ends	Cast Iron, PVC, Steel, AC, Ductile Iron	2" and larger	Up to 250 PSI
 482	Cast Line Cap Seal Only	Capping pipe ends	Cast Iron, PVC, Steel, AC, Ductile Iron	2" and larger	Up to 250 PSI
 EZB	EZB Seal and Restraint	Capping pipe ends. Restraining cap to pipe. No thrust blocks required.	Cast Iron, Steel, IPS PVC, IPS PE	IPS 1" thru 12" Cast Iron 2" thru 8"	Up to 300 PSI

Certain types of pipe may require special preparation prior to installation of these products. Please contact Smith-Blair engineers concerning any application questions. Rigid stiffener must be used with PE/PVC Pipe. The allowable working pressure of a pipe repair clamp decreases as pipe diameter (regardless of manufacturer). For a particular installation, the allowable working pressure will be determined by the size of the pipe, pipe type, clamp type, extent of damage, service conditions, environmental conditions and installation workmanship. Wall thickness rating must be provided before ordering to assure proper application and product selection. Suitable anchorage must be provided when pipe movement may occur. Standard gaskets are Nitrile (Buna N). Refer to catalog for further details.



Tapping Pipe

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 238	Full Circle Repair Clamp, Single Band Tapped	Outlet sizes 3/4" thru 2"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	3" thru 12"	Up to 300 PSI
 239	Full Circle Repair Clamp, Double Band Tapped	Outlet sizes 3/4" thru 2"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" thru 12"	Up to 200 PSI
 264	Full Circle Repair Clamp All Stainless Steel, Single Band Tapped	Leaks at service outlet	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	3" thru 8"	Up to 150 PSI
 265	Full Circle Repair Clamp All Stainless Steel, Double Band Tapped	Leaks at service outlet	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" thru 12"	Up to 150 PSI
 311	Service Saddle Single Bale, Ductile Iron	Outlet sizes 3/4" thru 2"	Steel, Cast Iron, Asbestos Cement, Ductile Iron	1" thru 12"	Up to 200 PSI
 313	Service Saddle Double Bale, Ductile Iron	Outlet sizes 3/4" thru 4"	Steel, Cast Iron, Asbestos Cement, Ductile Iron	1 1/4" thru 24"	Up to 300 PSI
 315	Service Saddle Single Strap, Flexi-Coat Epoxy Body, Iron With Wide Stainless Steel Strap	Outlet sizes 5/8" thru 2"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	1" thru 14"	Up to 200 PSI
 317	Service Saddle Single Strap, Flexi-Coat Epoxy Body, Iron With Wide Stainless Steel Strap	Outlet sizes 5/8" thru 4"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	1 1/4" thru 24"	Up to 300 PSI
 325	Bronze Service Saddle With Drop In Bolt	Outlet sizes 1/2" thru 1"	PVC ¹ , Cast Iron, Steel, Ductile Iron	2" and 12"	Up to 150 PSI
 331	Repair Service Saddle	Outlet sizes 5/8" thru 4"	Cast Iron, Asbestos Cement, Ductile Iron	4" thru 12"	Up to 200 PSI
 357	Service Saddle Ductile Iron Body, Flexi-Coat Epoxy, With Wide Stainless Steel Straps	Outlet sizes 3" and 4" IPS	PVC ¹ , Cast Iron, Steel, Ductile Iron	6" thru 12"	Up to 150 PSI
 362	Service Saddle Double Strap For Concrete Cylinder Pipe	Outlet sizes 3/4" thru 2"	Concrete Steel cylinder, Ductile Iron	6" thru 36"	Up to 150 PSI
 366	Service Saddle Triple Strap	Outlet sizes 3/4" thru 2"	Steel, Cast Iron, PVC, Asbestos Cement, Ductile Iron, other	18" thru 40"	Up to 150 PSI
 371	Service Saddle All Stainless Steel, Single Bolt	Outlet sizes 1/2" thru 2"	PVC ¹	4" thru 12"	Up to 150 PSI
 372	Service Saddle All Stainless Steel, Double Bolt	Outlet sizes 1/2" thru 2"	PVC	4" thru 12"	150 PSI

The allowable working pressure of a pipe repair clamp decreases as pipe diameter increases (regardless of manufacturer). For a particular installation, the allowable working pressure is determined by pipe size, pipe type, clamp type and extent of damage, service conditions, environmental conditions and installation workmanship. Higher pressure possible depending on application. Refer to appropriate product catalog for further details. ¹ Wall thickness rating must be provided before ordering for proper selection and application. Suitable anchorage must be provided when pipe movement can occur. Standard gaskets are Nitrile (Buna N). Refer to appropriate catalog for further details.


















Tapping Pipe, continued

PRODUCT	DESCRIPTION	APPLICATION	TYPE OF PIPE	FOR PIPE SIZES	WORKING PRESSURE
 397	Service Saddle, Ductile Iron	Outlet sizes 3/4" thru 2"	PVC ¹ (Cast Iron and Steel sizes), Ductile Iron	2" thru 12"	Up to 300 PSI
 418	Bolted Tee Coupling with Threaded Outlet	Outlet sizes 3/4" thru 2"	Steel, PVC	3/4" thru 2"	150 PSI
 622	Tapping Sleeve Optional Stainless Steel for Corrosive Environments	4" and larger; reducing and size-on-size flanged outlets. Available with 3/4" thru 6" threaded outlets	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" and larger	150 PSI, according to flange
 623	Tapping Sleeve Carbon Steel Mechanical Joint	4" and larger; reducing and size-on-size flanged outlets.	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" and larger	150 PSI, according to flange and pipe diameter
 625	Tapping Sleeve for Concrete Steel Cylinder Pipe	Reducing flanged outlets	Concrete Steel Cylinder	12" and larger (reducing sizes only)	150 PSI, according to flange and pipe diameter
 662	Tapping Sleeve Stainless Steel, Epoxy Coated Carbon Steel Flange	Outlet sizes 4" thru 12"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" thru 24"	Up to 200 PSI, according to flange and pipe diameter
 663	Tapping Sleeve All Stainless Steel	Outlet sizes 4" thru 12"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" thru 24"	Up to 200 PSI, according to flange and pipe diameter
 664	Tapping Sleeve Stainless Steel, Epoxy Coated Carbon Steel Flange with Drop in Bolts	Outlet sizes 4" thru 12"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" thru 24"	Up to 150 PSI, according to flange and pipe diameter
 665	Tapping Sleeve All Stainless Steel with Drop in Bolts	Outlet sizes 4" thru 12"	Steel, Cast Iron, Asbestos Cement, PVC, Ductile Iron, Other	4" thru 24"	Up to 150 PSI, according to flange and pipe diameter
 680	Line Stop Outlet Available on Any Style Tapping Sleeve	Line stopping and plugging	See type and size of tapping sleeve	See type and size of tapping sleeve	See type and size of tapping sleeve
 MJ	MJ Outlet Available on Any Style Tapping Sleeve	Taps utilizing standard MJ valve	See type and size of tapping sleeve	See type and size of tapping sleeve	See type and size of tapping sleeve

The allowable working pressure of a pipe repair clamp decreases as pipe diameter increases (regardless of manufacturer). For a particular installation, the allowable working pressure is determined by pipe size, pipe type, clamp type and extent of damage, service conditions, environmental conditions and installation workmanship. Higher pressure possible depending on application. Refer to appropriate product catalog for further details. Wall thickness rating must be provided before ordering for proper selection and application. Suitable anchorage must be provided when pipe movement can occur. Standard gaskets are Nitrile (Buna N). Refer to appropriate catalog for further details. ¹ Wall Thickness Rating must be provided before ordering for proper selection and proper application. Suitable anchorage must be provided when pipe movement may occur. Standard gaskets are Nitrile (Buna N). Refer to appropriate catalog for details.



Products for HIGH DENSITY POLYETHYLENE PIPE (Water Applications)

Coupling Product	Product Type (Catalog Brochure)	Application	Pipe DR	For Nominal Pipe Sizes	Working Pressure**
 411***†	Steel coupling (CC 411)	Joining plain-end pipe with same outside diameter	7.3-32.5	2-36	150 PSI + according to design
 413***†	Steel transition coupling (CC 411)	Joining pipe of different outside diameters	7.3-32.5	2-36	150 PSI + according to design
 415***†	Steel reducing coupling (CC 411)	Joining pipe of different outside diameters	7.3-32.5	2-36	150 PSI
 421***†	Top bolt wide range coupling	Joining pipe of same or different outside diameters	7.3-32.5	4-12	260 PSI
 441***†	Cast coupling (OMNI)	Joining pipe of same or different outside diameters	7.3-32.5	2-16	250 PSI
 442***†	Cast coupling (OMNI)	Joining pipe of same or different outside diameters	7.3-32.5	4-16	250 PSI
 461***†	Quantum coupling (CC-460)	Joining pipe of same or different outside diameters	7.3-32.5	2-12	250 PSI
 462***†	Quantum coupling (CC-460)	Joining pipe of same or different outside diameters	7.3-32.5	4-12	250 PSI
 611	Steel expansion joint coupling, flanged end (CC-611)	Absorbing concentrated pipe movement	7.3-32.5	2-36	150 PSI + according to design
 612	Steel double-end expansion joint, flanged end (CC-611)	Absorbing concentrated pipe movement	7.3-32.5	2-36	150 PSI + according to design
 EZ-W FCA***	Restrained flanged coupling adapter (CC-EZW FCA)	Joining plain-end pipe to flanged valves and fittings	7.3-32.5	2-12	150 PSI + according to design
 913***†	Steel flanged coupling adapter (CC-900)	Joining plain-end pipe to flanged valves and fittings	7.3-32.5	2-36	150 PSI + according to design
 914***†	Steel reducing flanged coupling adapter (CC-900)	Joining plain-end pipe to flanged valves and fittings	7.3-32.5	2-36	150 PSI + according to design
 EZ***	Maxi-Grip EZ seal and restraint coupling Pipe IPS to IPS IPS to CI*	Joining plain-end pipe	7.3-21	1 1/4-12 IPS 2-8 CI Reducing only	150 PSI
 C	Pipe Stiffeners I.D. of pipe required.	Pipe stiffener	All	All	N/A

*** All coupling and pipe joining products require properly sized pipe stiffeners.

† These products do not restrain axial pipe movement. Suitable anchorage must be provided where pipe movement could cause the pipe to move out of the coupling

** Actual working pressure will vary depending on pipe wall thickness. Consult Smith-Blair for specific applications.








* These products should not be used on CI size HDPE pipe.

High Density Polyethylene pipe (HDPE) is different from other types of pipe. Smith-Blair products will provide satisfactory performance when applied as recommended, but the following characteristics must be considered when selecting clamp and coupling products for use on HDPE pipe:

- Thermal expansion and contraction are greater, while yield strength and rigidity are lower.
- HDPE has a tendency to cold-flow over time when subjected to a constant load.
- The surface finish of HDPE pipe has a low frictional coefficient and the pipe ends toe-in after being cut.



Products for **HIGH DENSITY POLYETHYLENE PIPE** (Water Applications)

Tapping Product	Product Type	Application	Pipe DR	For Nominal Pipe Sizes****	Working Pressure***
 371	All stainless steel single bolt service saddle with stainless steel spring washers	Service Tap Outlet Sizes 1/2 thru 2	7.3-17	4-12	Up to 150 PSI
 372	All stainless steel double bolt service saddle with stainless steel spring washers				
 397	Ductile iron body with Flexi- Coat™ epoxy coating and stainless steel straps with stainless steel spring washers	Service Tap Outlet Sizes 3/4 thru 2 1/2	7.3-17	4-12	Up to 150 PSI
 317	Double strap saddle with Flexi- Coat™ epoxy coating and wide stainless steel straps with stainless steel spring washers	Service Tap Outlet Sizes 5/8 thru 2 1/2	7.3-17	4-16	Up to 150 PSI
Repair Product	Product Type	Application**	Pipe DR	For Nominal Pipe Sizes****	Working Pressure***
 226	Full Circle clamp with stainless steel spring washers	Splits and holes in pipe	7.3-11 7.3-17	2-3.50 4.00-14.00	Up to 255 PSI
 227	Super Range Full Circle clamp coupling with stainless steel spring washers	Splits and holes in pipe	7.3-11	4-14	Up to 175 PSI
 238	Tapped Full Circle clamp coupling with stainless steel spring washers	Leaks at service outlet	7.3-17	3-12	Up to 255 PSI
 239	Super Range Full Circle clamp coupling with stainless steel spring washers	Leaks at service outlet	7.3-11	4-14	Up to 175 PSI
 244/247	Full Circle Redi Clamp, stainless steel lugs, stainless steel washers (244) Full Circle Redi Clamp, stainless steel lugs, stainless steel washers (247)	Pin hole leaks and punctures in pipe	7.3-17	1/2-2	Up to 150 PSI
 245/248	Redi Clamp, stainless steel lugs, stainless steel washers (245) Redi Clamp, stainless steel lugs, stainless steel washers (248)	Pin hole leaks, punctures	7.3-21	2-12	Up to 150 PSI
 256	Cast stainless steel, Full Circle clamp coupling with stainless steel spring washers	Corrosive environments	7.3-17	2-12	Up to 255 PSI
 257	Super range cast stainless steel, Full Circle clamp coupling with stainless steel spring washers		7.3-17	4-14	Up to 175 PSI
 261	All stainless steel, Full Circle clamp coupling with stainless steel spring washers	Splits and holes in pipe	7.3-17	2-12	Up to 150 PSI
 262	Super range all stainless steel, Full Circle clamp coupling with stainless steel spring washers			3-12	
 264	All stainless steel tapped, Full Circle clamp coupling with stainless steel spring washers	Leaks at service outlet	7.3-17	3-12	Up to 155 PSI
 265	All stainless steel super range tapped, Full Circle clamp coupling with stainless steel spring washers			4-12	

*Bodies formed to fit exact pipe O.D. All Tapping and Repair Products require Spring Washers.

**Full Circle Clamp coupling may be used to join pipe only when stiffeners are used in the pipe ends. These products do not restrain axial movement. Suitable anchorage must be provided where pipe movement could cause the pipe to move out of the coupling.

Actual Working Pressure will vary depending on pipe wall thickness. Consult Smith-Blair for specific application. *Not for use on copper tube size (CTS) polyethylene.



Engineered Fabrications

Smith Blair offers a team of Engineered Fabrication Specialists capable of custom designing and manufacturing non-standard configurations and sizes to meet your needs.



before



after



Utility Supply (West) Corp.

Fax: 604-381-2147
www.usccanada.com

Phone: 604-381-2146
Toll Free Phone: 855-381-2146