## SPECIFICATION SERVICE SADDLE DOUBLE BALE MODEL 314



## APPLICATIONS

- Typical Uses
- Tapping branch connections on new or existing pipe
- Installing vacuum valves, pitot tubes, relief valves, or other miscellaneous service equipment
- Installing pipe supports, hangers, or sign mounting brackets
- Standard Pipe Sizes
- 1.25 " to 18 " nominal
- Standard Taps
- NPT: $3 / 4 ", 1 ", 1-1 / 4 ", 1-1 / 2 ", 2 ", 3 "$ and $4 "$

See Smith-Blair catalog for available pipe diameter and tap size combinations as some combinations are not available

- Type of Pipe
- Carbon Steel, Stainless Steel, Ductile Iron
- Working Pressure
- Up to 150 psi depending on type of pipe, type of repair, pipe diameter, service conditions, and installation workmanship

a xylem brand


# SPECIFICATION SERVICE SADDLE DOUBLE BALE MODEL 314 

## MATERIALS

- Body (Small (ST) and Large (LT) Tap sizes $1 / 2$ " - 2-1/2")
- Cast using Ductile Iron 65-45-12 per ASTM A536
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213
- Closed ears holds nut and bale in place allowing the assembly to hinge for ease of installation around pipe
- Open ears provide easy slip on installation and removal of nuts are not required preventing lost hardware
- Canted ears for maximum tangential tightening of bale or strap
- Wraparound design provides maximum pipe support, reinforcement, and sealing pressure
- Wide skirt and heavy tapping boss provides excellent stability on the pipe
- Body (Extra-Large (XLT) Tap sizes 3" and 4")
- Cast using Ductile Iron 65-45-12 per ASTM A536
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213
- Open ears provide easy slip on installation and removal of nuts are not required preventing lost hardware
- Canted ears for maximum tangential tightening of bale or strap
- Wraparound design provides maximum pipe support, reinforcement, and sealing pressure
- Wide skirt and heavy tapping boss provides excellent stability on the pipe
- Gasket
- Nitrile (Buna-N) per ASTM D2000
- Compounded to resist oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
- Temperature range: $-20^{\circ} \mathrm{F}$ to $+180^{\circ} \mathrm{F}$
- TaperSeal ${ }^{\text {TM }}$ hydro-mechanical lip enables the saddle to hold higher pressures with minimal nut torque
- Gasket is fully cemented in a cavity to hold it in place
- Bale Assembly (used only on 1.25 " - ~14" nominal pipe size saddles with $1 / 2$ " thru 4"tap sizes)
- Bale
- HSLA Carbon Steel per AWWA C111/A21.11
- FE/Zn coated per ASTM F1941-10
- Size: $\quad 1.25 "-3 "$ nominal pipe size $=1 / 2 "-13 U N C$
$4 "-14 "$ nominal pipe size $=5 / 8 "-11$ UNC
Extra-Large (XLT) Taps < 14.73" O.D. $=5 / 8 "-11 U N C$
- Pipe contact surface flattened to provide a wider bearing surface against pipe
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- Nut
- Carbon Steel per ASTM A307
- FE/Zn coated per ASTM F1941-10
- Size: $\quad 1.25 "-3$ " nominal pipe size $=1 / 2$ "-13UNC Heavy Hex Semi-Finished $4 "-14 "$ nominal pipe size $=5 / 8 "-11$ UNC Heavy Hex Semi-Finished
Extra-Large (XLT) Taps < 14.73" O.D. $=5 / 8 "-11$ UNC Heavy Hex Semi-Finished
- Flat Washer
- Carbon Steel per ASTM F844
- FE/Zn coated per ASTM F1941-10
- Size: $\quad 1.25 "-3$ " nominal pipe size $=1 / 2$ " Type A Plain $4 "-14 "$ nominal pipe size $=5 / 8^{\prime \prime}$ Type A Plain
Extra-Large (XLT) Taps < 14.73" O.D. = 5/8" Type A Plain
- Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface


# SPECIFICATION SERVICE SADDLE DOUBLE BALE MODEL 314 

- Strap Assembly (used only on 16"- 24 " nominal pipe size saddles with 1/2" thru 2-1/2" tap sizes)
- Strap
- Carbon Steel per ASTM A36
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213
- Formed using 0.25 " x 1.25 " flat bar
- Provides continuous circumferential support of the pipe for better performance in the tapped area (nearly $360^{\circ}$ )
- Stud
- HSLA Carbon Steel per AWWA C111/A21.11
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213 (threads free from epoxy coating)
- $5 / 8 "-11$ UNC, Stud welded to Strap
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- Welding
- Welds accomplished using qualified welders
- GMAW weld process utilized
- Nut
- Carbon Steel per ASTM A307
- 5/8"-11UNC Heavy Hex Semi-Finished
- FE/Zn coated per ASTM F1941-10
- Flat Washer
- Carbon Steel per ASTM F844
- $5 / 8$ " Type A Plain
- FE/Zn coated per ASTM F1941-10
- Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface
- Spherical Washer (used only on 16 " - 24 " nominal pipe size saddles)
- Cast using Ductile Iron 65-45-12 per ASTM A536
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213
- Provide full bearing for the strap nuts and align the straps with the saddle body
- Distributes load for better performance


# SPECIFICATION SERVICE SADDLE DOUBLE BALE MODEL 314 

- Strap Assembly (used only on 14"-18" nominal pipe size saddles with 3" and 4" tap sizes)
- Strap

Carbon Steel per ASTM A36

- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213
- Formed using $0.25 "$ x 1.75 " flat bar
- Provides continuous circumferential support of the pipe for better performance in the tapped area (nearly $360^{\circ}$ )
- Stud
- HSLA Carbon Steel per AWWA C111/A21.11
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213 (threads free from epoxy coating)
- 3/4"-10UNC, Stud welded to Strap
- Rolled threads for improved physical characteristics, greater thread accuracy, and smooth surface finish
- Welding
- Welds accomplished using qualified welders
- GMAW weld process utilized
- Nut
- Carbon Steel per ASTM A307
- 3/4"-10UNC Heavy Hex Semi-Finished
- FE/Zn coated per ASTM F1941-10
- Flat Washer
- Carbon Steel per ASTM F844
- 3/4" Type A Plain
- FE/Zn coated per ASTM F1941-10
- Utilized to preserve corrosion resistance of epoxy coated surfaces and increase bearing surface
- Spherical Washer
- Cast using Ductile Iron 65-45-12 per ASTM A536
- Flexi-Coat ${ }^{\circledR}$ fusion bonded epoxy finish which meets application methods AWWA C213
- Provide full bearing for the strap nuts and align the straps with the saddle body
- Distributes load for better performance


## OPTIONS

- Type 304 Stainless Steel bale assembly with fluoropolymer coated nuts to prevent galling
- Type 316 Stainless Steel strap assembly with fluoropolymer coated nuts to prevent galling (spherical washers remain D.I)
- Electro-galvanized strap assembly
- Alternative gasket material (e.g. Viton, EPDM, etc.)
- Anode connector

NOTES

- These product specifications were correct at the time of publication and are subject to change without notice
- Flexi-Coat ${ }^{\circledR}$ is a registered trademark of Smith-Blair, Inc.
- Taperseal ${ }^{\mathrm{TM}}$ is a trademark of Smith-Blair, Inc.
- See the Smith-Blair ${ }^{\circledR}$ web site for part numbers and ordering information
- See the Smith-Blair ${ }^{\circledR}$ web site for warranty information
- See the Smith-Blair ${ }^{\circledR}$ web site for corrosion warnings



