## **BULL PLUGS AND SWAGES**

#### **STANDARD BULL PLUG**

- Sch 40 150#
- Zinc plated



PART #	DESCRIPTION	
91008	2"	
	2" w/ 1/2" TAP	
	2-1/2"	
	3"	
	4"	

#### **XH BULL PLUG**

- Made from sch. 80 pipe.
- Zinc plated
- Hollow



PART #	DESCRIPTION	
	1/4"	
90002	3/8"	
90003	1/2"	
90004	3/4"	
90005	1"	
	1-1/4"	
	1-1/2"	
90008	2"	
93001*	2"	
90213	2" w/ 1/4" TAP	
90212	2" w/ 1/2" TAP	
93212*	2"XXH w/1/2" TAP	
	2-1/2"	
	3"	
	3" w/ 1/2" TAP	
90011	4"	

\* XXH

## STANDARD SCH. 40 SWAGE MIP X MIP

Zinc plated



	DESCRIPTION	PART #
	1-1/4" x 1"	93113
	2" x 1"	93121
	2" x 1-1/4"	93122
	2" x 1-1/2"	93123
	2-1/2" x 2"	
	3" x 1"	
	3" x 1-1/2"	93127
	3" x 2"	93128
	3" x 2-1/2"	
	4" x 2"	93130
	4" x 3"	93131
	6" x 3"	93139

**Pressure Ratings:** Due to the wide variation in service conditions, temperature, vibrations, etc...Midland Industries can make no recommendations as to allowable working pressure of swage nipples and bull plugs. There are a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.

### **SWAGES**

NIPPLES AND FITTINGS

# SCH 80 XH SWAGES MIP X MIP



\* Hex Style



1/4" x 1/8"       1/2" x 1/4"       90103*   1/2" x 3/8"       90104*   3/8" x 1/4"       90105*   3/4" x 1/4"       90106*   3/4" x 3/8"       90107*   3/4" x 1/2"       1" x 1/4"       1" x 1/2"       90111*   1" x 3/4"       90140   1-1/4" x 3/4"       90141   1-1/2" x 1/2"       90115   1-1/2" x 1/2"       90116   1-1/2" x 1/4"       90117   1-1/2" x 1/4"       90119   2" x 1/4"       90120   2" x 3/4"       90121   2" x 1/4"       90122   2" x 1-1/4"       90123   2" x 1-1/4"       90124   3" x 1-1/2"       90125   3" x 1-1/2"       90126   3" x 1-1/2"       90127   3" x 1-1/2"       90128   3" x 2-1/2"       90130   4" x 2"       90131   4" x 3"       6" x 2"       6" x 2"       6" x 3"	PART #	DESCRIPTION	
90103*		1/4" x 1/8"	
90104* 3/8" x 1/4" 90105* 3/4" x 1/4" 90106* 3/4" x 3/8" 90107* 3/4" x 1/2"  1" x 1/4"  1" x 3/8"  90110* 1" x 1/2"  90111* 1" x 3/4"  90140 1-1/4" x 3/4"  90141 1-1/2" x 1/2"  90115 1-1/2" x 1/2"  90116 1-1/2" x 1/4"  90117 1-1/2" x 1-1/4"  90119 2" x 1/4"  90120 2" x 3/4"  90121 2" x 1"  90122 2" x 1-1/4"  90123 2" x 1-1/4"  90126 3" x 1-1/4"  90127 3" x 1-1/4"  90128 3" x 2"  3" x 2"  90130 4" x 2"  90131 4" x 3"  90132 6" x 4"  90132 6" x 4"  90131 4" x 3"  90132 6" x 4"  90132 6" x 4"  90132 6" x 4"  90133 4" x 3"  90131 4" x 3"  90132 6" x 4"  90132 6" x 4"		1/2" x 1/4"	
90105* 3/4" x 1/4" 90106* 3/4" x 3/8" 90107* 3/4" x 1/2" 1" x 1/4" 1" x 3/8" 90110* 1" x 1/2" 90111* 1" x 3/4" 90140 1-1/4" x 3/4" 90114 1-1/4" x 1" 90115 1-1/2" x 1/2" 90116 1-1/2" x 1/4" 90117 1-1/2" x 1-1/4" 90119 2" x 1/4" 90120 2" x 3/4" 90121 2" x 1/4" 90122 2" x 1-1/4" 90123 2" x 1-1/4" 90123 2" x 1-1/4" 90126 3" x 1-1/2" x 2" 3" x 1" 90127 3" x 1-1/2" 90128 3" x 2-1/2" 90130 4" x 2" 90131 4" x 3" 90131 4" x 3" 90132 6" x 4" 90132 6" x 4" 90132 6" x 4" 90131 4" x 3" 90132 6" x 4" 90132 6" x 4"	90103*	1/2" x 3/8"	
90106*  3/4" x 3/8"  90107*  3/4" x 1/2"  1" x 1/4"  1" x 3/8"  90110*  1" x 1/2"  90111*  1" x 3/4"  90140  1-1/4" x 3/4"  90141  1-1/4" x 1/2"  90115  1-1/2" x 1/2"  90116  1-1/2" x 1/4"  90117  1-1/2" x 1-1/4"  90119  2" x 1/4"  90120  2" x 3/4"  90121  2" x 1/4"  90122  2" x 1-1/4"  90123  2" x 1-1/2"  90126  3" x 1-1/2"  90127  3" x 1-1/2"  90128  3" x 2-1/2"  90130  4" x 2"  90131  4" x 3"  90132  6" x 4"   1" x 1/4"   90130  4" x 3"  90131  4" x 3"  90132  6" x 4"   1" x 1/4"   90130  4" x 3"  90131  4" x 3"  90132  6" x 4"   6" x 2"   1"  1" x 1"   90130  6" x 4"   6" x 2"   1" x 1"   90130  6" x 4"   6" x 2"    1" x 1"   90130  6" x 4"   6" x 2"	90104*	3/8" x 1/4"	
90107* 3/4" x 1/2"  1" x 1/4"  1" x 3/8"  90110* 1" x 1/2"  90111* 1" x 3/4"  90140 1-1/4" x 3/4"  90141 1-1/2" x 1/2"  90115 1-1/2" x 3/4"  90116 1-1/2" x 1/4"  90117 1-1/2" x 1-1/4"  90119 2" x 1/4"  90120 2" x 3/4"  90121 2" x 1"  90122 2" x 1-1/4"  90123 2" x 1-1/2" x 2"  3" x 1"  90126 3" x 1-1/2"  90127 3" x 1-1/2"  90128 3" x 2-1/2"  4" x 1"  90130 4" x 2"  90131 4" x 3"  90131 4" x 3"  90132 6" x 4"	90105*	3/4" x 1/4"	
1" x 1/4"  1" x 3/8"  90110* 1" x 1/2"  90111* 1" x 3/4"  90140 1-1/4" x 3/4"  90141 1-1/2" x 1/2"  90115 1-1/2" x 3/4"  90116 1-1/2" x 1/2"  90117 1-1/2" x 1-1/4"  90119 2" x 1/2"  90120 2" x 3/4"  90121 2" x 1/2"  90122 2" x 1-1/4"  90123 2" x 1-1/2"  90124 3" x 1-1/2"  90125 3" x 1"  90126 3" x 1-1/4"  90127 3" x 1-1/4"  90128 3" x 2"  90130 4" x 2"  90131 4" x 3"  90132 6" x 4"  90132 6" x 4"  90132 6" x 4"  90132 6" x 4"	90106*	3/4" x 3/8"	
1" x 3/8"          90110*       1" x 1/2"          90111*       1" x 3/4"          90140       1-1/4" x 3/4"          90141       1-1/4" x 1"          90114       1-1/2" x 1/2"          90115       1-1/2" x 3/4"          90116       1-1/2" x 1"          90117       1-1/2" x 1-1/4"          90120       2" x 1/2"          90120       2" x 3/4"          90121       2" x 1"          90122       2" x 1-1/4"          90123       2" x 1-1/2"          90123       2" x 1-1/2"          90126       3" x 1-1/4"          90127       3" x 1-1/4"          90128       3" x 2"          3" x 2"          90130       4" x 1"          90131       4" x 3"          90132       6" x 4"	90107*	3/4" x 1/2"	
90110* 1" x 1/2" 90111* 1" x 3/4" 90140 1-1/4" x 3/4" 90141 1-1/4" x 1" 90114 1-1/2" x 1/2" 90115 1-1/2" x 3/4" 90116 1-1/2" x 1/4" 90117 1-1/2" x 1/4" 90119 2" x 1/4" 90120 2" x 3/4" 90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2" 90123 2" x 1-1/2" 90126 3" x 1-1/4" 90127 3" x 1-1/4" 90128 3" x 2" 90128 3" x 2" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4"		1" x 1/4"	
90111* 1" x 3/4" 90140 1-1/4" x 3/4" 90141 1-1/4" x 1" 90114 1-1/2" x 1/2" 90115 1-1/2" x 3/4" 90116 1-1/2" x 1" 90117 1-1/2" x 1-1/4" 90119 2" x 1/4" 90120 2" x 3/4" 90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2" 90124 2" x 1-1/2" 90125 3" x 1-1/2" 90126 3" x 1-1/4" 90127 3" x 1-1/4" 90128 3" x 2" 90128 3" x 2" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 90132 6" x 4" 90132 6" x 4"		1" x 3/8"	
90140	90110*	1" x 1/2"	
90141 1-1/4" x 1" 90114 1-1/2" x 1/2" 90115 1-1/2" x 3/4" 90116 1-1/2" x 1" 90117 1-1/2" x 1-1/4" 90119 2" x 1/2" 90120 2" x 3/4" 90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2" 2-1/2" x 2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 3" x 2" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 90132 6" x 4"	90111*	1" x 3/4"	
90114	90140	1-1/4" x 3/4"	
90115	90141	1-1/4" x 1"	
90116	90114	1-1/2" x 1/2"	
90117	90115	1-1/2" x 3/4"	
2" x 1/4" 90119 2" x 1/2" 90120 2" x 3/4" 90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 4" x 1" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 90132 6" x 4"	90116	1-1/2" x 1"	
90119 2" x 1/2" 90120 2" x 3/4" 90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2"  90126 3" x 1"  90127 3" x 1-1/4"  90128 3" x 2"  4" x 1"  90130 4" x 2"  90131 4" x 3"  90132 6" x 4"  6" x 2"	90117	1-1/2" x 1-1/4"	
90120 2" x 3/4" 90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2" 2-1/2" x 2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 3" x 2" 4" x 1" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4"		2" x 1/4"	
90121 2" x 1" 90122 2" x 1-1/4" 90123 2" x 1-1/2" 2-1/2" x 2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90119	2" x 1/2"	
90122 2" x 1-1/4" 90123 2" x 1-1/2" 2-1/2" x 2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 3" x 2-1/2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90120	2" x 3/4"	
90123 2" x 1-1/2" 2-1/2" x 2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90121	2" x 1"	
2-1/2" x 2" 3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2"  3" x 2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90122	2" x 1-1/4"	
3" x 1" 90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2"  3" x 2-1/2"  4" x 1"  90130 4" x 2"  90131 4" x 3"  90132 6" x 4"  6" x 2"	90123	2" x 1-1/2"	
90126 3" x 1-1/4" 90127 3" x 1-1/2" 90128 3" x 2" 3" x 2-1/2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"			
90127 3" x 1-1/2" 90128 3" x 2" 3" x 2-1/2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"		3" x 1"	
90128 3" x 2" 3" x 2-1/2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90126	3" x 1-1/4"	
3" x 2-1/2" 4" x 1" 90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90127	3" x 1-1/2"	
90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"	90128		
90130 4" x 2" 90131 4" x 3" 90132 6" x 4" 6" x 2"		3" x 2-1/2"	
90131 4" x 3" 90132 6" x 4" 6" x 2"			
90132 6" x 4" 6" x 2"	90130	4" x 2"	
6" x 2"	90131		
	90132		
6" x 3"			
		6" x 3"	

### **XXH SWAGE**



PART #	DESCRIPTION	
	1/2" x 1/4"	
	3/4" x 1/2"	
	1" x 1/4"	
	1" x 3/8"	
92110*	1" x 1/2"	
	1" x 3/4"	
	1-1/2" x 1/2"	
	1-1/2" x 3/4"	
92116	1-1/2" x 1"	
	2" x 1/2"	
	2" x 3/4"	
92121	2" x 1"	
	2" x 1-1/4"	
	2" x 1-1/2"	
92128	3" x 2"	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov