

MAIN**GUARD**TM

#78 Blow-Off

New Design and Standard Features Combine to Deliver the **BEST VALUE** for You!

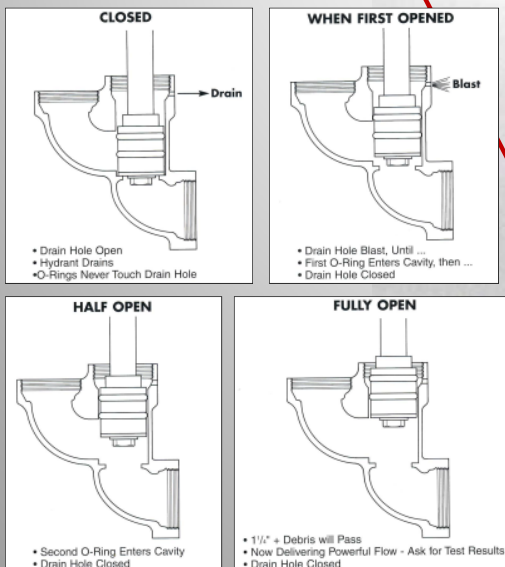
- **2" Below Grade Blow-Off** that Fits Inside a Standard Meter Box

- **LOCKING COVER**

Always furnished,
Never an Option!

- **NEW! PLUNGER DESIGN**

Double O-Rings Allow Throttling
of Valve with Minimal Water
Loss through Drain



- **IRON NOZZLE CAP**

Always furnished,
Never an Option!

- Outlet can be straight up or at a 45° angle (standard as shown)

- No Special Operating Wrench Required (standard Corp Stop)

- **FULL FLOW PIPE**
100% Hollow Flow Pipe Assures Scouring Power and passes large debris easily!

- **FULL FLOW VALVE**
New Extra-Wide Waterway Delivers Maximum Flow



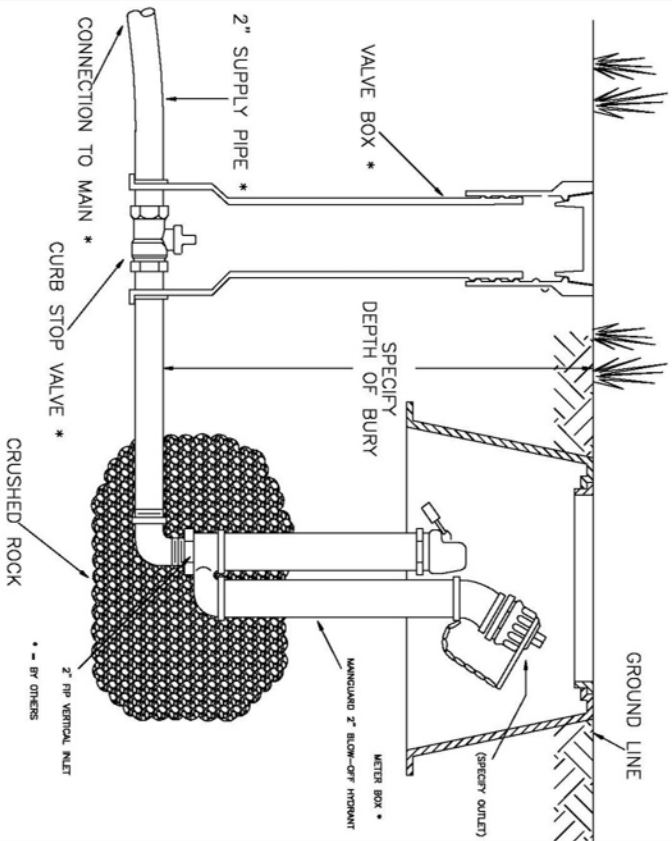
2511 North 9th Street
St. Louis, MO 63102

800-231-8738

www.hydrants.com



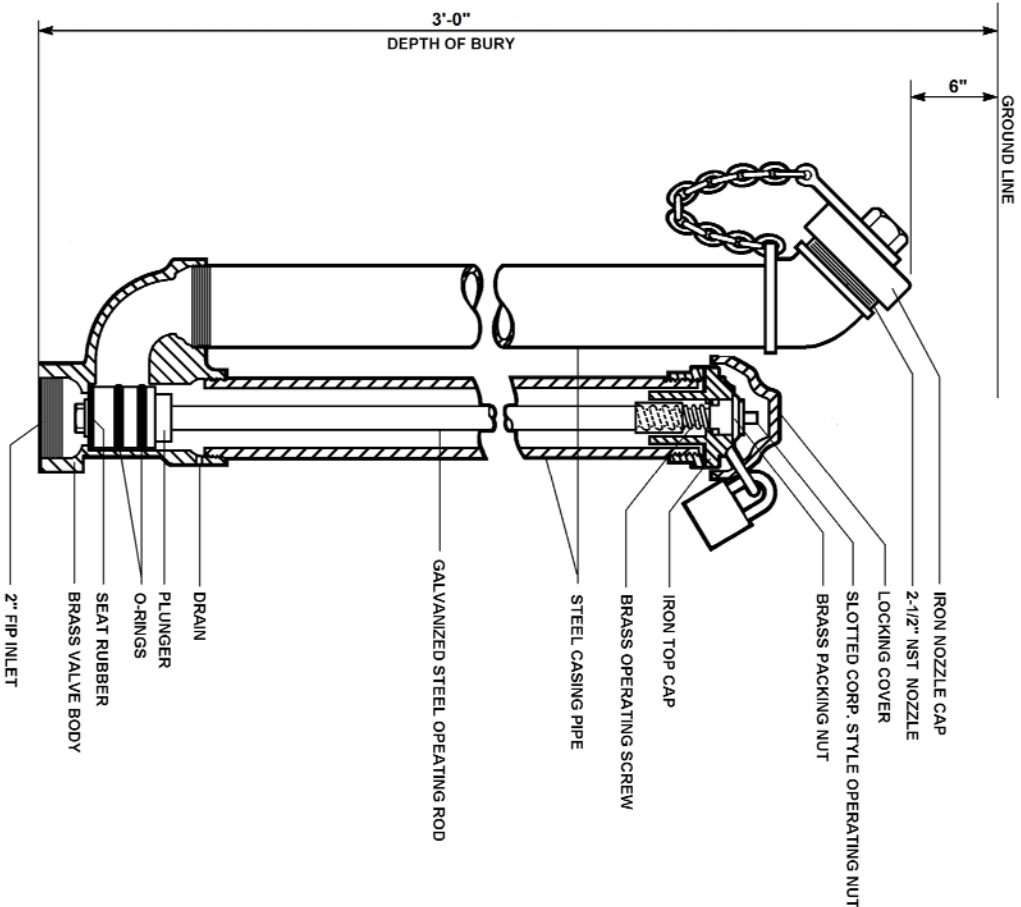
MAINGUARD NO. 78 BLOW-OFF HYDRANT



Blow-off hydrants shall be non-freezing, self-draining type with a depth of bury of _____'. Set underground in a customer provided meter box. These hydrants will be furnished with a 2" FIP inlet, a non-turning operating rod, and shall open to the left. All of working parts shall be of bronze-to-bronze design with an aluminum plunger and sealable from above grade with no digging. The outlet shall be bronze and be 2 1/2" NST or smaller. Hydrants shall be lockable to prevent unauthorized use as manufactured by Kuperle Foundry Co. St. Louis, Mo. or approved equal. (Specify depth of bury and overall length will be 6' shorter. Minimum opening in meter box should be 10")

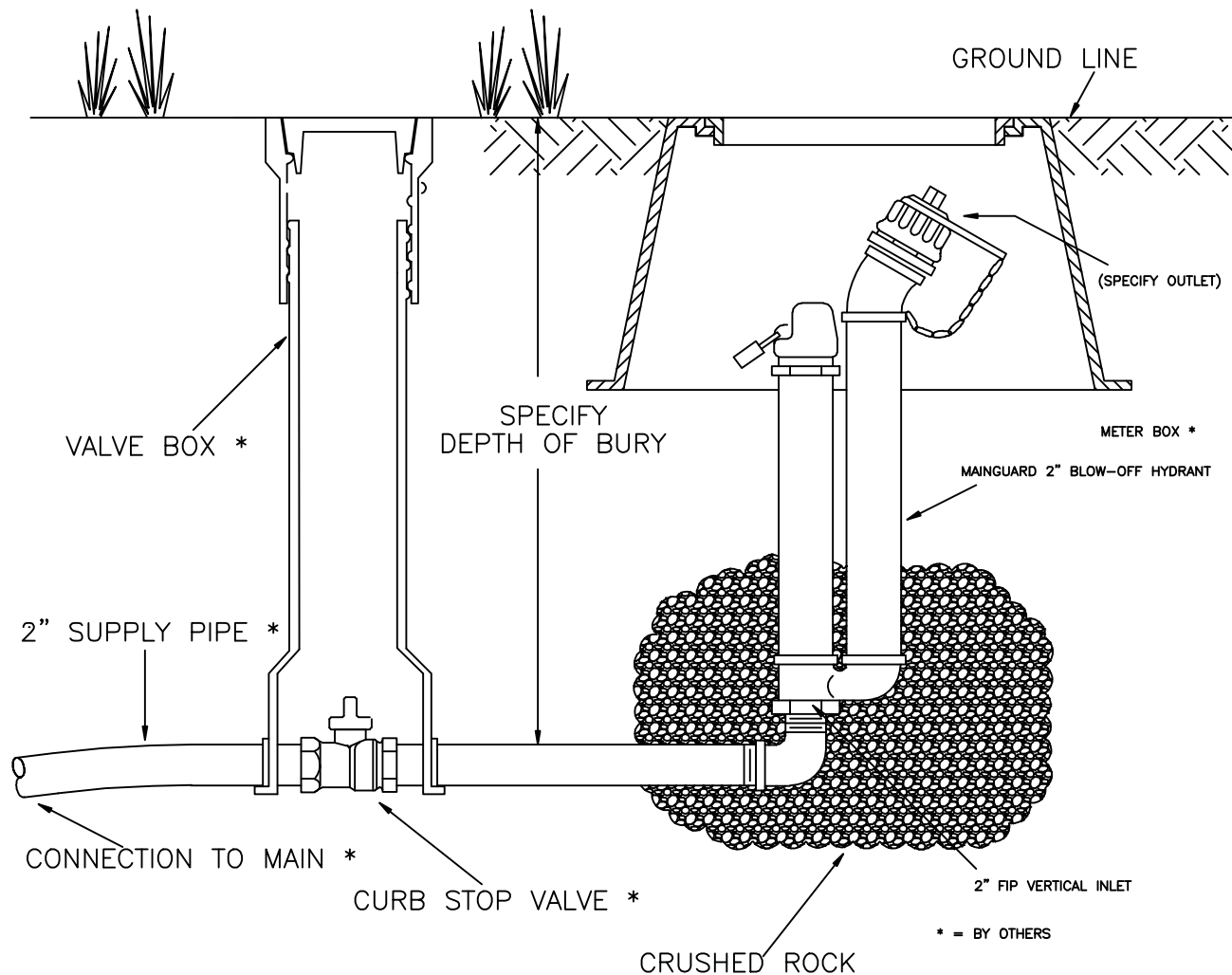
DATE	REVISION	PART NO. 878 MAINGUARD BLOW OFF	SHEET 1 OF 1
THIS DRAWING IS THE PROPERTY OF THE KUPERLE FOUNDRY COMPANY. IT IS NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION OF THE OWNER. DATE: 1-31-13 APPROVED: F.M. KUPERLE FOUNDRY COMPANY 2911 NORTH 6TH STREET, ST. LOUIS, MO 63102 314-231-4778 800-231-5860 FAX 314-231-2820 http://www.kuperle.com			

#78 MAINGUARD HYDRANT VERTICAL INLET



Inlet Pressure (psi)	Flow Rate (gpm)
75	380
100	435
125	488
150	527

MAINGUARD NO. 78 BLOW-OFF HYDRANT



Blow-off Hydrants shall be non-freezing, self draining type with a depth of bury of ____'. Set underground in a customer provided meter box. These hydrants will be furnished with a 2" FIP inlet, a non-turning operating rod, and shall open to the left. All of working parts shall be of bronze-to-bronze design with an aluminum plunger and serviceable from above grade with no digging. The outlet shall be bronze and be 2½" NST or smaller. Hydrants shall be lockable to prevent unauthorized use as manufactured by Kupferle Foundry Co., St. Louis, Mo., or approved equal. (Specify depth of bury and overall length will be 6" shorter. Minimum opening in meter box should be 10".)

DATE	REVISION

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PART NO. #78 MAINGUARD BLOW OFF SHEET 1 OF 1

DRAWN
F.M.
APPROVED
DATE
1-31-13
MAT'L

ECLIPSE
Since 1857

KUPFERLE FOUNDRY COMPANY
2511 NORTH 9TH STREET, ST. LOUIS, MO 63102
314-231-8738 800-231-3880 FAX 314-231-2820
<http://www.hydrants.com>

#78 CUT SHEET

(VERTICAL INLET, 2-1/2" NST OUTLET)

PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES
1	3.17	2P	2" STEEL PIPE	
2	1.09	3/4GAL	3/4" GALVANIZED PIPE	B,C
3	1	4B	SLOTTED TOP SCREW	
4	1	510	CONNECTING NUT	C
5	1	592-C	2-1/2" NST SIDE CAP	
6	1	595	PEAR RING, CHAIN, S-HOOK ASSEMBLY	A
7	1	601A	2-1/2" NST NOZZLE	
8	1	669	GASKET FOR NOZZLE	C
9	1	721	MAINGUARD PACKING NUT	
10	1	77C	SEAT RUBBER BOLT	
11	2	77D	PLUNGER O-RING	C
12	1	77F	NECK	C
13	1	77GA	TOP CAP	
14	1	77H	LOCKING COVER	C,S
15	1	77I	SEAT WASHER	C
16	1	77J	BRASS 2" STRAIGHT INLET VALVE	C
17	2	77K	TOP CAP BOLT	C
18	1	77L	PLUNGER	
19	1	77M	O-RING FOR SLOTTED SCREW	C
20	1	77MG	PACKING NUT GASKET	C
21	1	77W	WASHER FOR PLUNGER	
22	1	78A	2" NOZZLE COUPLING (45°)	C
23	1	95G	HOUSING O-RING	
24	1	A1	TOP CAP GASKET	C
25	2	A16	NOZZLE CAP GASKET	C

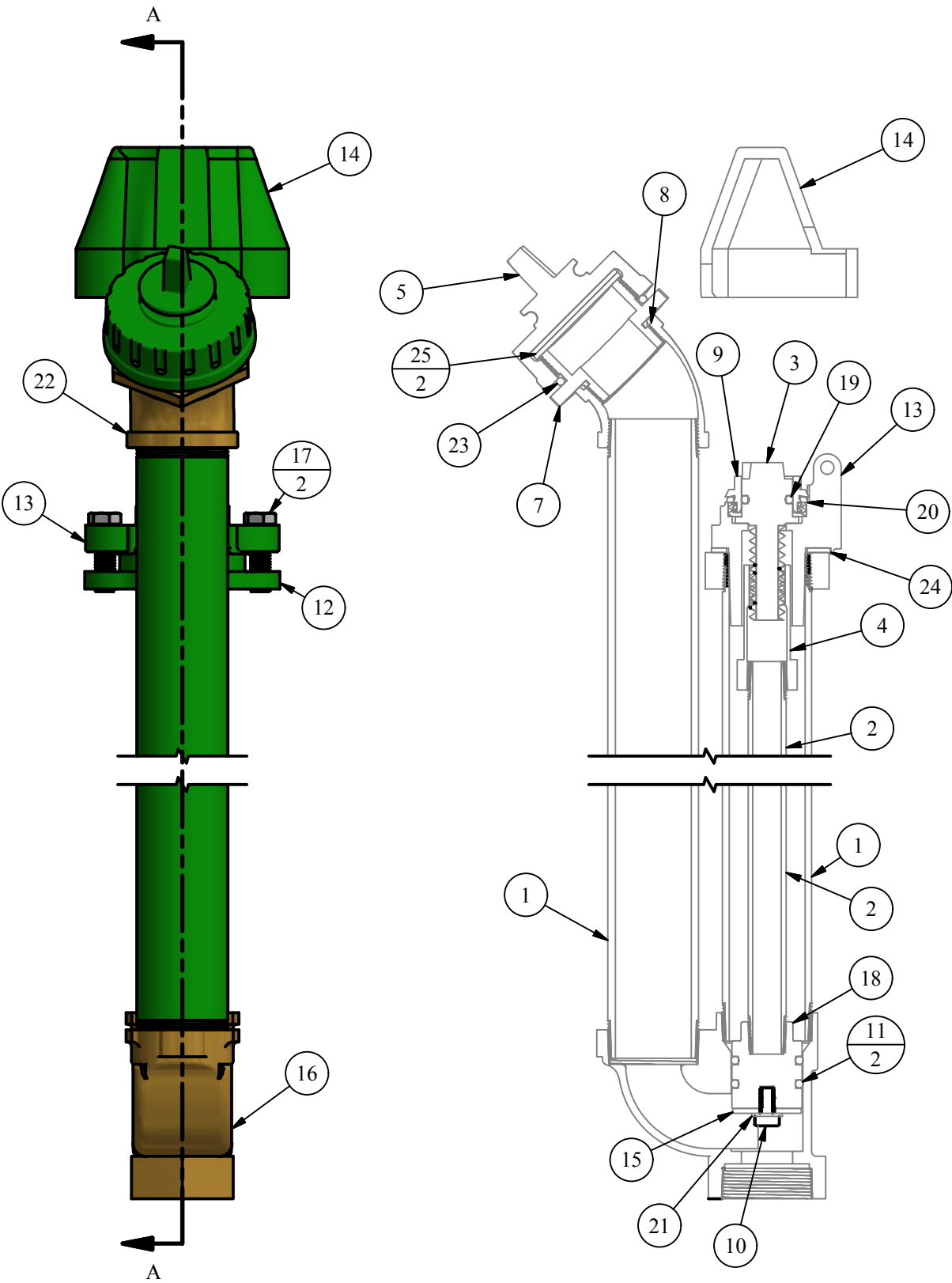
OPTIONS / REPAIR PARTS ONLY				
26	0	2MJG	2" MECHANICAL JOINT GLAND	
27	0	2TG	2" TRANSITION GLAND	
28	0	707	2" MJ ADAPTER	
29	0	77A	TRAFFIC BREAKAWAY COUPLING FOR VERTICAL OUTLET	A,C
30	0	77CL	IRON CLAMP	C
31	0	77P	BOLT FOR CLAMP	C
32	0	77Q	NUT FOR CLAMP	C
33	0	79V	BRASS 2" SIDE INLET VALVE	C
34	0	79W-IRON	IRON VALVE 2" MJ 90°	A
35	0	85LHW	LONG HANDLED WRENCH	A
36	0	CORTEN	MJ BOLT AND NUT	

OLD STYLE PARTS LIST				
37		4-77	"OLD STYLE" SQUARE TOP SCREW	A
38		4A	"OLD STYLE" SLOTTED TOP SCREW	A
39		620	"OLD STYLE" PACKING NUT	A
40		621	"OLD STYLE" PACKING NUT	C
41		77N	O-RING FOR TOP SCREW	A,C
42		77O	"OLD STYLE" PACKING NUT GASKET	A,C

REPAIR KITS			
PART NUMBER	DESCRIPTION	PARTS INCLUDED	NOTES
X4B	"NEW STYLE" SLOTTED TOP SCREW COMPLETE	4B SCREW (1), 77M O-RING (1)	DUE TO COMPATIBILITY, IT IS RECOMMENDED THAT X4B BE ORDERED WITH 510 - CONNECTING NUT
X592C	NOZZLE CAP COMPLETE 2-1/2" NST	592-C SIDE CAP (1), A-16 GASKET (2), 595 CHAIN ASSEMBLY (1)	
X601A	BRASS NOZZLE 2-1/2" NST	601A NOZZLE (1), 669 GASKET (1)	
X707	2" MJ ADAPTER	707 BRASS 2" MJ ADAPTER (1), 2MJG GLAND (1), 2TG 2" TRANSITION GASKET CORTEN MJ BOLT AND NUT (2)	
X721	"NEW STYLE" PACKING NUT WITH GASKET	721 PACKING NUT (1), 77MG GASKET (1)	SEE X77OPASSY
X77EXT-6	MAINGUARD EXTENSION - FIRST 6"	2P EXTERIOR PIPES (2), 3/4GAL OPERATING ROD (1), 3/4C COUPLING (1), 77A COUPLING (1), 77F NECK (2), 629A-B-SS BOLT (2), 827 GASKET (1)	
X77EXT-XX	MAINGUARD EXTENSION - EACH ADDITIONAL 6"	2P EXTERIOR PIPES (2), 3/4GAL OPERATING ROD (1), 3/4C COUPLING (1), 77A COUPLING (1), 77F NECK (2), 629A-B-SS BOLT (2), 827 GASKET (1)	
X77GA	TOP CAP COMPLETE	77GA TOP CAP (1), A1 GASKET (1), 77K BOLT (2)	SEE X77OPASSY
X77L	PLUNGER COMPLETE	77L PLUNGER (1),77D O-RING (2), 77I SEAT WASHER (1), 77W WASHER (1), 77C BOLT (1)	
X77OPASSY	77 OPERATING ASSEMBLY - GREEN (NOTE 4)	4B SCREW (1), 510 CONNECTING NUT (1), 721 PACKING NUT (1), 77MG GASKET (1), 77GA TOP CAP (1), A1 GASKET (1), 77K BOLT (2)	RECOMMENDED FOR ALL REPAIRS
X77RK	REPAIR KIT	77D O-RING (2), 77I SEAT WASHER (1), 77W WASHER (1)	

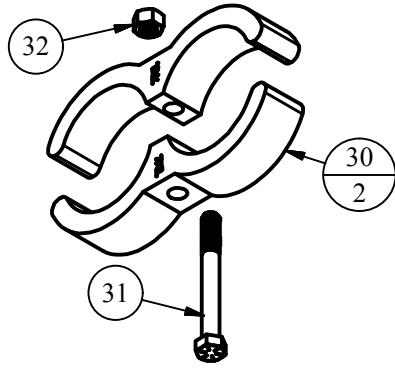
OLD STYLE REPAIR KITS			
X4	"OLD STYLE" PENT TOP SCREW COMPLETE	4 SCREW (1), 77N O-RING (1)	USED BEFORE APRIL 1995
X4A	"OLD STYLE" SLOTTED TOP SCREW COMPLETE	4A SCREW (1), 77M O-RING (1)	USED APRIL 1995 TO JANUARY 2012
X620	"OLD STYLE" PACKING NUT WITH GASKET	620 PACKING NUT (1), 77O GASKET (1)	USED BEFORE APRIL 1995
X621	BRASS PACKING NUT COMPLETE	621 PACKING NUT (1), 77MG GASKET (1)	USED APRIL 1995 TO JANUARY 2012
X77RK-OLD	"OLD STYLE" REPAIR KIT	77D O-RING (2), 77I-1/2 "OLD STYLE" SEAT WASHER (1), 77W WASHER (1)	USED BEFORE APRIL 1995

NOTE	DESCRIPTION
A	NOT SHOWN
B	PIPE LENGTH DEPENDENT ON DEPTH OF BURY
C	SOLD AS REPLACEMENT PART
S	SPECIFY COLOR ON ORDER

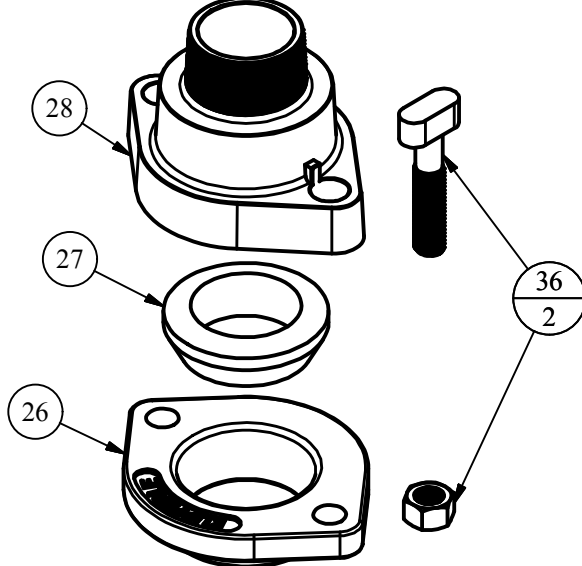


SECTION A-A
CENTER SECTION VIEW

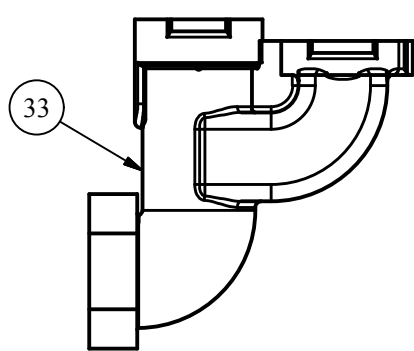
OPTIONAL CLAMP ASSEMBLY (STANDARD ON D.O.B.'S OVER 5')



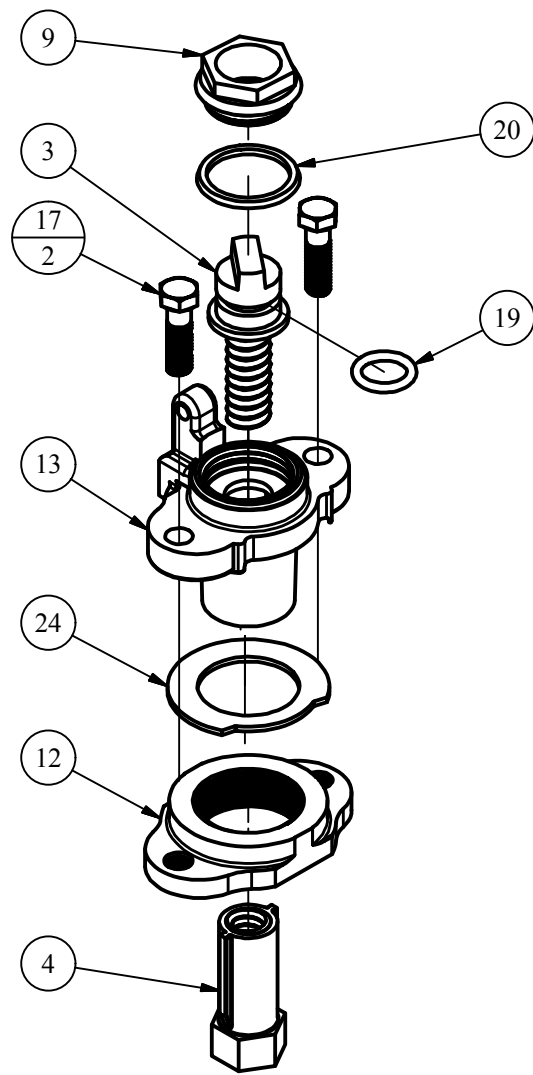
OPTIONAL MJ ADAPTER



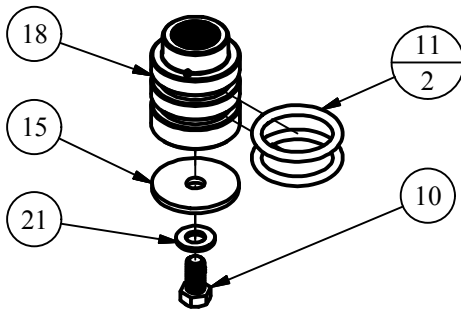
OPTIONAL SIDE INLET VALVE



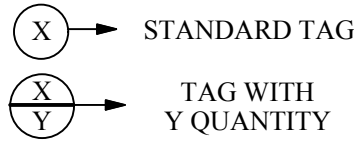
TOP CAP ASSEMBLY



PLUNGER ASSEMBLY



LEGEND



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DRAWN SMS	11/14/2016	 2511 NORTH 9TH ST. ST. LOUIS, MO 63102 1-800-231-3990	
CHECKED DCL	9/10/2017		
MODIFIED			
SIZE C	SCALE 1 / 4		
DWG NO #78 Cut_Rev0	SHEET 1 OF 1	REV 0	