

# CSP20x20 & CSP28x28 MSDS - Junction Box Support Plate

S-P Products File QCRV.E165176

Per UL our CSP20x20 & CSP28x28 satisfies UL 514A and UL 5148 requirements.

They are UL Listed under File QCRV.E165176.

## Metallic Outlet Boxes UL 514A

### 1 Scope

- 1.1 This standard applies to metallic OUTLET BOXES, flush-DEVICE BOXES, FLOOR BOXES, CONCRETE BOXES, EXTENSION RINGS, covers, CONDUIT BODIES, BAR HANGERS, bar-hanger assemblies, and all accessories whose principal function is for support of boxes. The products covered by this standard are intended for installation in accordance with the National Electrical Code (NEC), NFPA 70, the Canadian Electrical Code (CEC), Part I, and the Standard for Electrical Installations, NOM-001-SEDE. In Canada, CONDUIT BODIES are not evaluated as OUTLET BOXES; they are fittings. Requirements in this standard for CONDUIT BODIES intended for use as OUTLET BOXES do not apply in Canada.
- 1.2 This standard also applies to marine application metallic OUTLET BOXES, flush-DEVICE BOXES, special purpose boxes, EXTENSION RINGS, and covers.

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- 1.3 This standard also applies to marine products intended for installation in accordance with the manufacturer's instructions and the applicable requirements of the United States Coast Guard (USCG), IEEE Recommended Practice for Electric Installation on Shipboard, IEEE Standard 45; the American Boat and Yacht Council (ABYC); the Standard for Pleasure and Commercial Motor Craft, NFPA 302; and the Canadian Electrical Code (CEC), Part I.
- 1.4 This standard does not apply to cabinets and cutout boxes, boxes, and covers intended for use with raceway systems for surface wiring other than rigid or flexible conduit or electrical metallic tubing. This standard does not apply to boxes having a volume of more than 1640 cm (100 in<sup>3</sup>), other than multiple-gang boxes, flush-DEVICE BOXES, and CONDUIT BODIES intended for the larger trade sizes of conduit.
- 1.5 This standard does not apply to cover plates for flush-mounted wiring devices.
- 1.6 This standard does not apply to OUTLET BOXES or OUTLET BOX covers for use in hazardous (classified) locations as defined in the National Electrical Code (NEC), NFPA 70, the rules of the Canadian Electrical Code (CEC), Part I, and the Standard for Electrical Installations, NOM-001-SEDE.

## Conduit, Tubing, and Cable Fittings UL 5148

### 1 Scope

- 1.1 These requirements cover FITTINGS for use with cable and conduit intended for installation in accordance with the National Electrical Code, ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CSA C22.1, and the Standard for Electrical Installations, NOM-001-SEDE.
- 1.2 These requirements cover CONDUIT LOCKNUTS, conduit BUSHINGS, metal stud BUSHINGS, CONDUIT BODIES, and entrance ELBOWS; FITTINGS for electrical metallic tubing, flexible metal conduit, intermediate metal conduit, liquid-tight flexible conduit, rigid metal conduit, and SERVICE-ENTRANCE HEADS; FITTINGS or box clamps referenced from other standards for armored cable, metal-clad cable, aluminumsheathed cable, mineral-insulated cable, non-metallic-sheathed cable, service-entrance cable, and tray cable, and submersible FITTINGS; FITTINGS for flexible cord, flexible nonmetallic and metallic tubing, INSULATING BUSHINGS, grips, reducing washers, and NIPPLES. In Canada, fittings for metal-clad (MC) cable, intermediate metal conduit (IMC), flexible metallic tubing, flexible nonmetallic tubing, and CONDUIT BODIES are not recognized. CONDUIT BODIES are considered FITTINGS. In Canada, armored cable includes Type TECK cable. In Canada, tray cable includes any "TC rated" cable.

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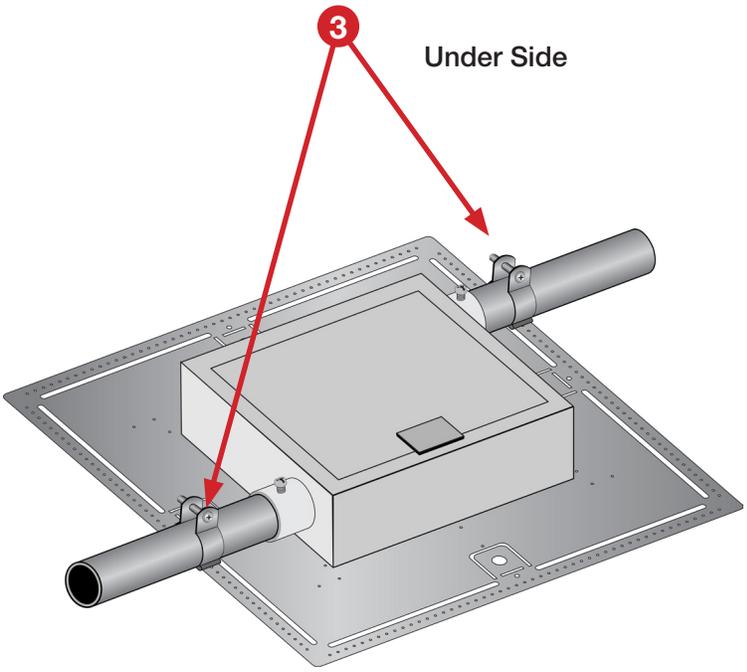
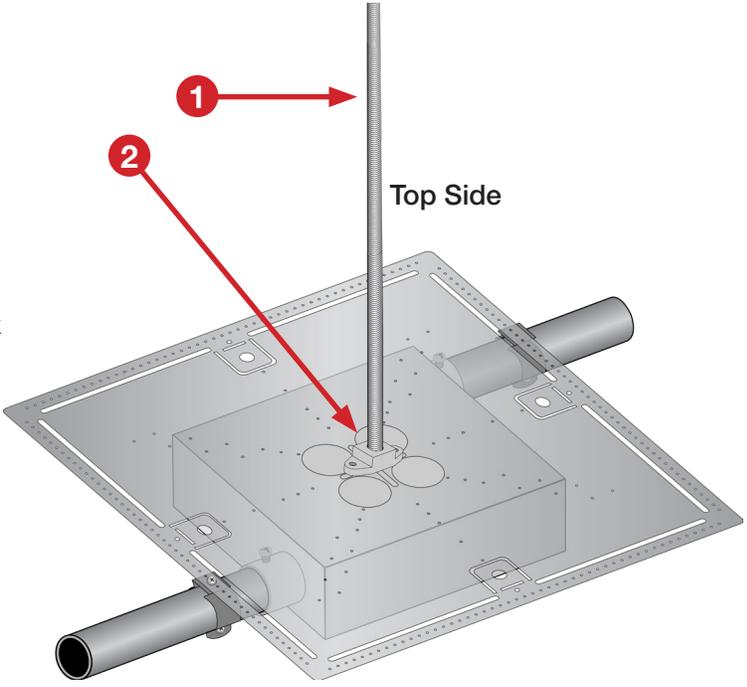
In Mexico and the United States, requirements for submersible FITTINGS are provided in NMX-J-235/2-ANCE or UL 50E. In Mexico, intermediate metal conduit is designated as semi-heavy metal conduit.

- 1.3 In Mexico and the United States, these requirements cover CONDUIT BODIES for rigid poly-vinyl chloride (PVC) conduit. These products are intended to be used with Schedule 40, Type EB, Type A and Schedule 80 PVC conduit, ELBOWS, and other bends. In Canada, requirements for fittings intended for use with rigid PVC conduit are addressed in CSA C22.2 No. 85.
- 1.4 These requirements do not cover FITTINGS intended for use in hazardous locations as defined in the National Electrical Code, ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CSA C22.1, and the Standard for Electrical Installations, NOM-001-SEDE.
- 1.5 These requirements do not cover FITTINGS intended for use with surface raceway systems.
- 1.6 These requirements do not cover conduit NIPPLES, threaded ELBOWS, and threaded COUPLINGS intended for use with rigid metal conduit or intermediate metal conduit.

# CSP20x20 & CSP28x28 MSDS - Junction Box Support Plate

## INSTALLATION OPTION 1 Horizontal Application

- 1** Drop 1/4" or 3/8" or 1/2" threaded rod.
  - 2** To secure box to CSP20x20/CSP28x28 plate use 1/4", 3/8" or 1/2" threaded rod and secure with SPs Quik Block sandwiching the plate and the box with machine screws thru the inside of the box.
- CSP20x20: Supports 4" thru 10" square boxes or J Box  
 CSP28-28: Supports 4" thru 20" square boxes or J Box
- 3** Install conduit at any KO location on compatible box and secure with conduit clamps, nuts & bolts in 1/4" slots provided on 4 sides. Tek screws can be used as well using holes provided on all four edges and in the plate interior.



CSP20x20/CSP28/28 Hardware Material List	Qty:
CSP20x20/CSP28x28	1
1/4-20 or 3/8-20 or 1/2-20 Threaded Rod	1
1/2" or 3/4" Conduit	2
JBox (or other)	1
Conduit Clamp	2
Conduit Fittings	2
1/4-20 or 3/8-20 or 1/2-20 Hex Nuts, Washers	2
1/4-20 or 3/8-20 or 1/2-20 Bolts	1

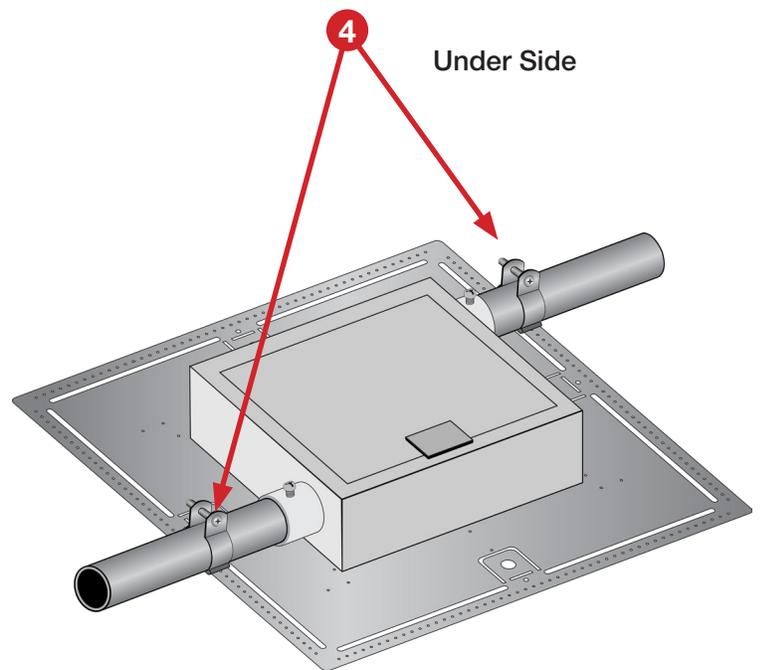
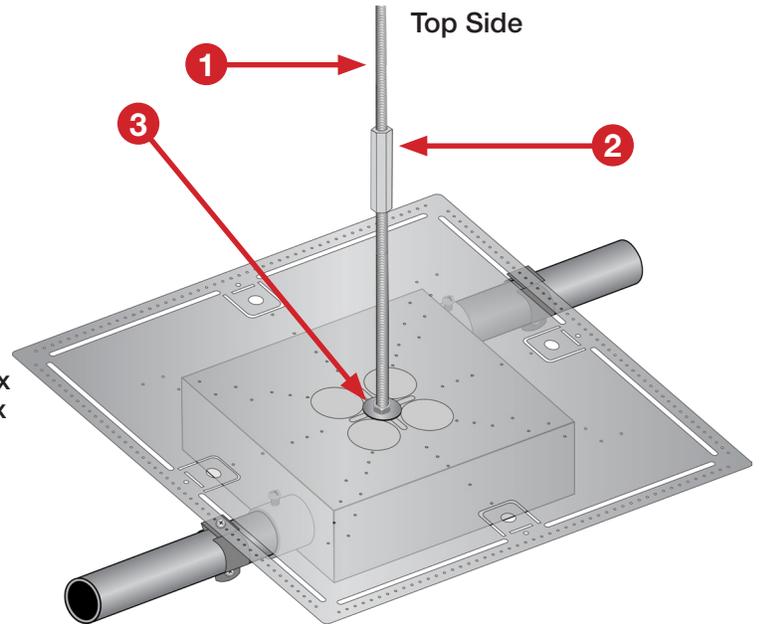
# CSP20x20 & CSP28x28 MSDS - Junction Box Support Plate

## INSTALLATION OPTION 2 Horizontal Application

- 1 Drop 1/4" or 3/8" or 1/2" threaded rod.
- 2 Coupling nut to join suspended rod and support CSP20x20/CSP28x28 assembly.
- 3 To secure box to CSP20x20/CSP28x28 plate use 1/4", 3/8" or 1/2" threaded rod thru center hole in plate and thru back of the box using two (2) washers and two (2) nuts to sandwich plate and box assembly.

CSP20x20: Supports 4" thru 10" square boxes or J Box  
 CSP28-28: Supports 4" thru 20" square boxes or J Box

- 4 Install conduit at any KO location on compatible box and secure with conduit clamps, nuts & bolts in 1/4" slots provided on 4 sides. Tek screws can be used as well using holes provided on all four edges and in the plate interior.

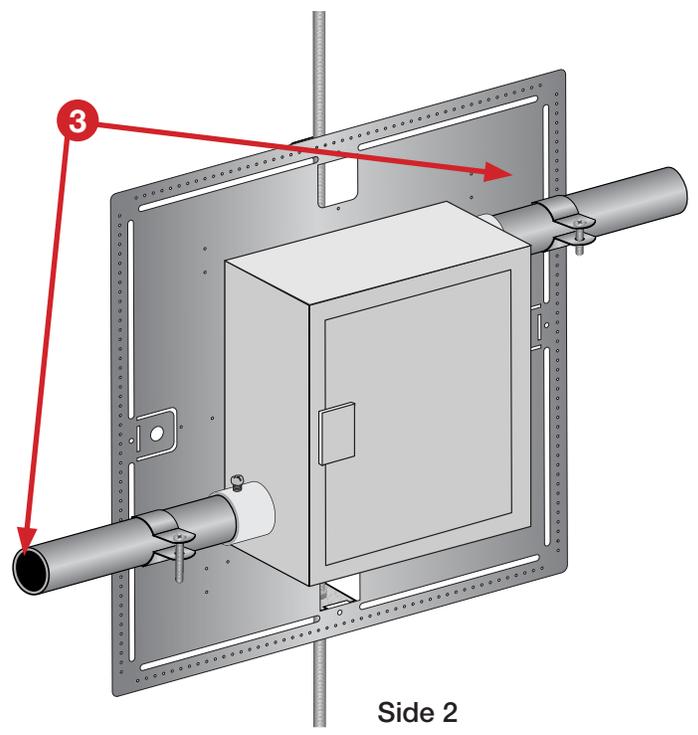
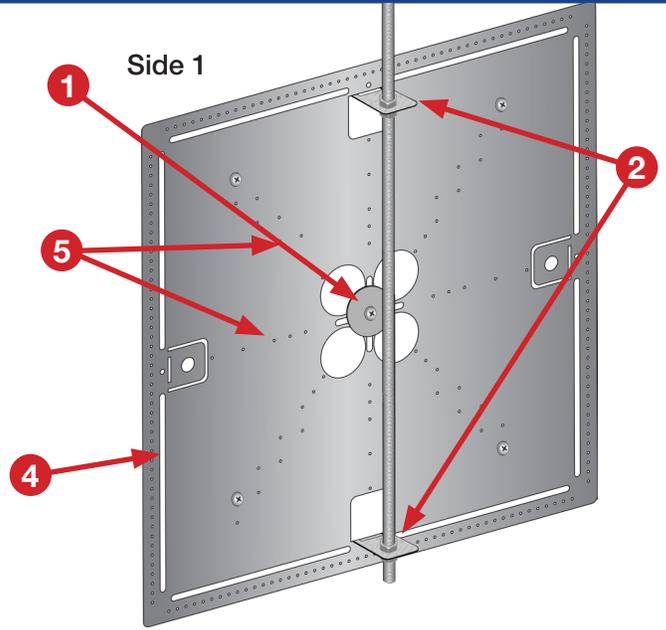


CSP20x20/CSP28/28 Hardware Material List	Qty:
CSP20x20/CSP28x28	1
1/4-20 or 3/8-20 or 1/2-20 Threaded Rod	1
Coupling Nut	1
1/2" or 3/4" Conduit	2
JBox (or other)	1
Conduit Clamp	2
Conduit Fittings	2
1/4-20 or 3/8-20 or 1/2-20 Hex Nuts, Washers	2
1/4-20 or 3/8-20 or 1/2-20 Bolts	1

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## INSTALLATION OPTION 3 Vertical Application

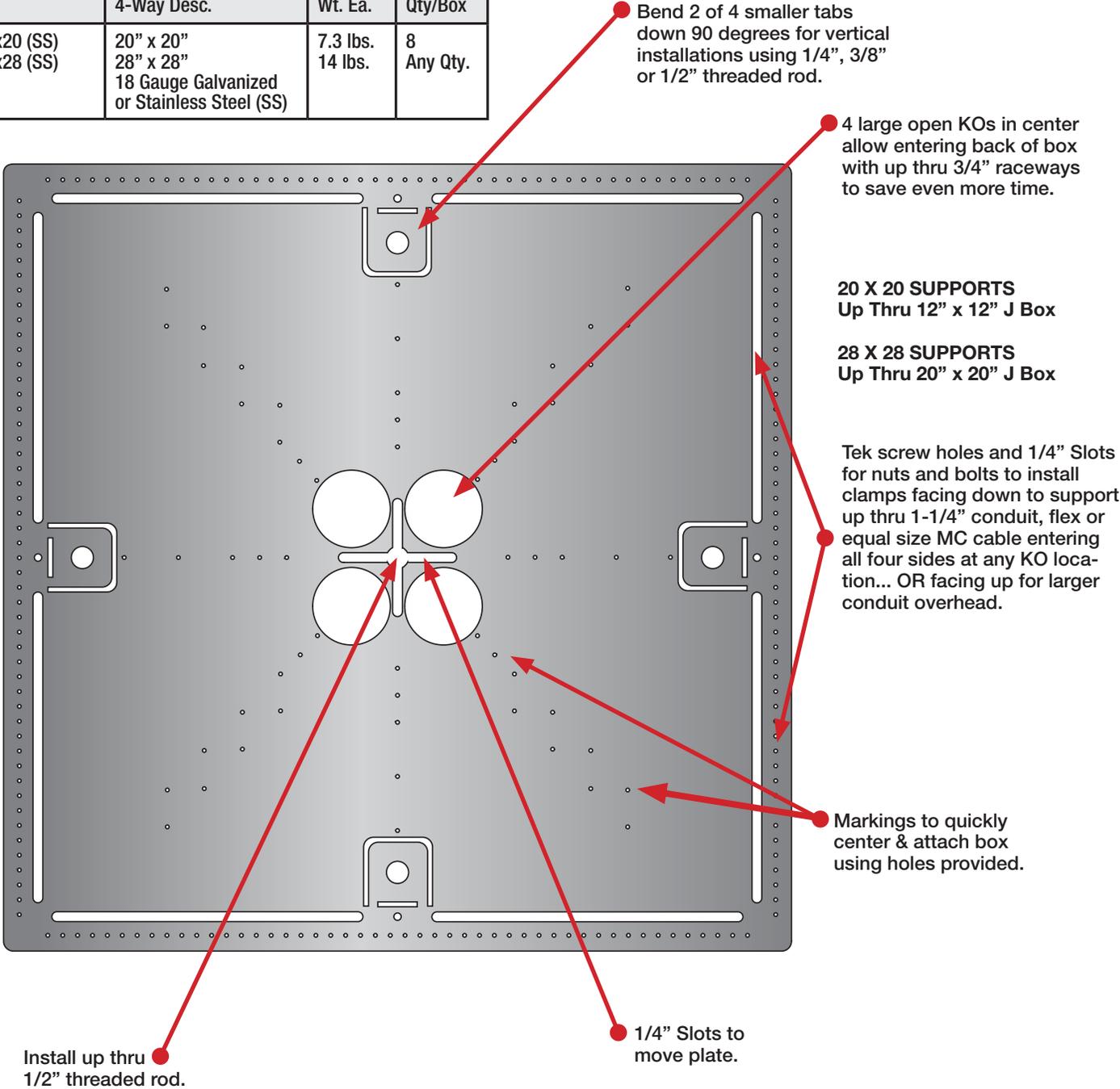
- 1** To secure box to CSP20x20/CSP28x28 plate use 1/4", 3/8" or 1/2" machine bolt thru center hole in plate and thru back of the box use two (2) washers and one (1) nut to sandwich plate and box.
- 2** For vertical installation drop 1/4" or 3/8" or 1/2" threaded rod. Bend tabs at 90 degrees and feed threaded rod thru the center hole and support entire assembly vertically with 1 nut on each side of the 2 bent tabs.
- 3** CSP20x20: Supports 4" thru 10" square boxes or J Box  
 CSP28-28: Supports 4" thru 20" square boxes or J Box
- 4** Use 1/4" slots or Tek Screw holes on the plate edges to secure conduit and fittings entering the KO's on the sides of the box.
- 5** Tek screw holes on the face of the plate can be used to mount preferred boxes to plate with Tek screws if desired.
- 6** 4 centered oval openings can be used for conduit entering the back of the box as well as crossing slots for positioning box using one threaded rod as support.



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1/4-20 or 3/8-20 or 1/2-20 Threaded Rod	1
1/2" or 3/4" Conduit	2
JBox (or other)	1
Conduit Clamps	2
Conduit Fittings	2
1/4-20 or 3/8-20 or 1/2-20 Hex Nuts, Washers	2
1/4-20 or 3/8-20 or 1/2-20 Bolts	1

# CSP20x20 & CSP28x28 MSDS - Junction Box Support Plate

Cat#	4-Way Desc.	Wt. Ea.	Qty/Box
CSP20x20 (SS)	20" x 20"	7.3 lbs.	8
CSP28x28 (SS)	28" x 28"	14 lbs.	Any Qty.
	18 Gauge Galvanized or Stainless Steel (SS)		



PATENT PENDING