

# M.E.G.A.

## INSERT MEGALET



## CATALOGUE

---

***M.E.G.A. - The best choice for piping components since 1962.***

*For about 50 years, M.E.G.A. has delivered the highest quality piping component all over the world.*

*We continuously invest in technology, always looking for state-of-the-art machining centers. This allows us to specialize in machining a wide range of products and materials.*

*In our three manufacturing units, we manufacture not only Standard Catalogue products, but also products according to Customer drawings.*

*Our design department is specialized in designing fittings complying to internationally recognized Standards and Codes and satisfying the most specific Customer requirements.*

*M.E.G.A. is the key supplier for power, oil, chemical, submarine and nuclear industries throughout the world.*



---

***Product quality is our business***

*Our integrated, state-of-the-art manufacturing facility allows M.E.G.A. to develop products at the highest volume, all displaying the same consistent quality.*

*The tight control we maintain over our manufacturing process has earned M.E.G.A. Quality Management System the ISO 9001:2008 certification and the ASME NCA-3800 accreditation.*

*Additionally, products are inspected to the requirements of ASME B&PV Code, PED Directive, AD 2000-Merkblatt W0 / TRD 100.*

*Our Quality Department is able to perform the most specialized tests and inspections, including Non Destructive Examinations, carried out by Certified NDE Level II and Level III technicians.*

---

## Products and fittings fitting your needs

All our products come in a variety of classes and material grade for any application.

This catalogue is specific for insert megalets, even though also flanged insert megalets are mentioned. Insert megalets are available in over 60 different alloys.

Insert megalet outlet size range is available from 1/8" up to 90". Other specially designed and manufactured products are available upon request. For more information on these products or to learn about the complete M.E.G.A. production line, visit our website at [www.mega-spa.com](http://www.mega-spa.com), or contact our customer service personnel at +39-035-661-280.

NOTE: This catalogue does not give any dimension for insert megalets, because they strongly depend on the header pipe diameter and schedule. For any information contact our engineering department at +39-035-661-280.

# Product description

---

The Insert Megalet is a contoured integrally reinforced insert branch connection

Insert Megalets features:

- Fully interpretable radiographic or ultrasonic weld examination
- Longer life under cyclic fatigue loading
- Butt-weld installation in header pipe
- Outlets available in butt-weld, socket-weld, threaded and flanged configurations
- Shape in compliance with Figure 328.5.4E or K328.5.4 of ASME B31.3
- Low stress intensification (SIF)

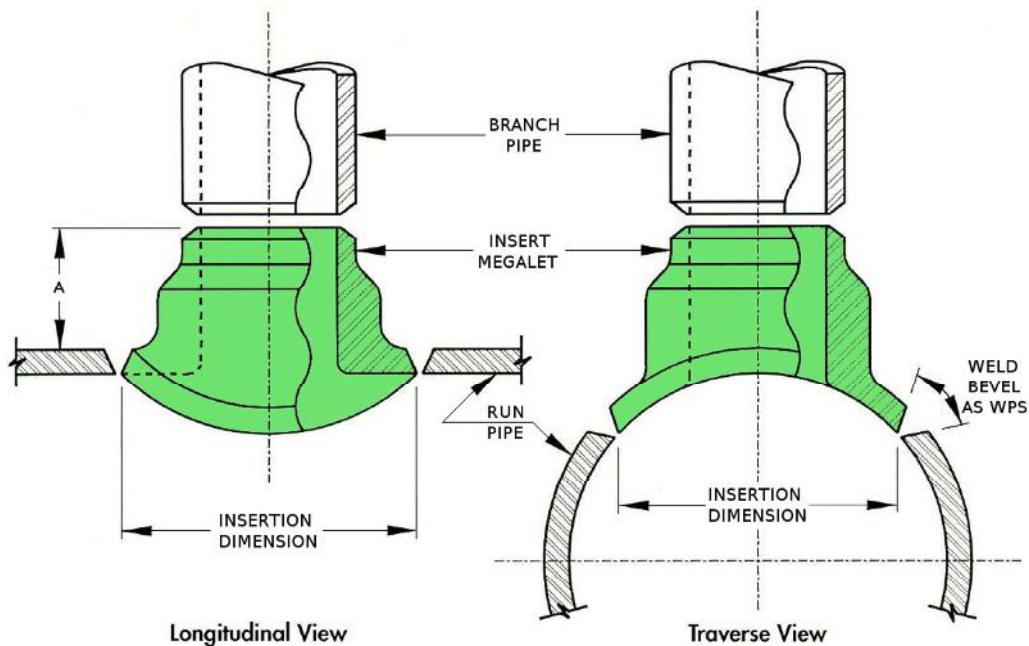
## Recommended installation procedure\*

The Insert Megalet is an insert type fitting.

For the fitting installation, operators need a template to guide them in cutting the hole.

For the majority of installations, the Insert Megalet itself can be used as a template.

Due to manufacturing tolerances and pipe tolerances, the installation hole should not be cut until the installer has the template or the actual Insert Megalet to be installed.



1. Locate the center of the hole to be cut on the pipe.
2. Locate the Insert Megalet on that center and trace around the outside.
3. Remove the Insert Megalet and cut the hole. (It is recommended to cut on the inside of the guide line, as additional cutting and grinding will be required to produce the appropriate weld bevel and size for the root gap to match your weld procedure).
4. Perform the additional work to achieve clean metal and appropriate weld preparation for your WPS.
5. Locate the Insert Megalet in the prepared hole. (It is recommended to use wedges).
6. When properly located, it is ready to tack and weld out as per you WPS.

\*These information is provided to assist the installer in welding the Insert Megalet. There is no recommendation, explicit or implied, as to which weld process or weld specification is appropriate to a specific application.

## How to order Insert Megalets

---

To ensure an accurate description of the product you require and to shorten order time, we suggest you to use the following scheme.

Id	Branch		PTC	Material	Type	Header	
	Size	Schedule				Size	Schedule
			(1)		(2)	(3)	

---

Additional requirements may be specified (e.g. different design standard etc.)

### EXAMPLE

8) 1.1/2” Sch. 80 ASTM A105 Insert Megalet – 6” Sch. 40

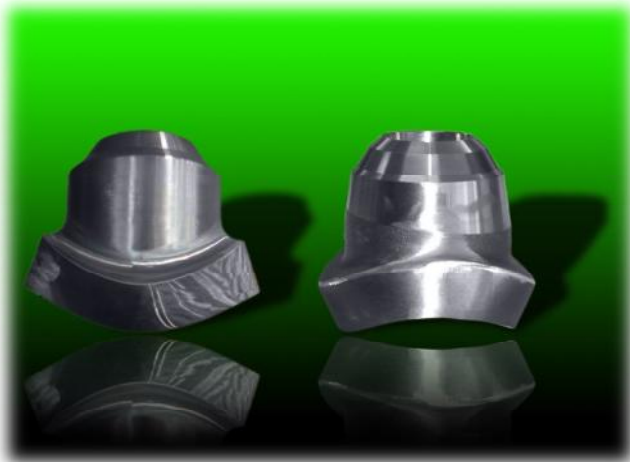
### NOTES

To ensure an accurate description of the product you require and to shorten order time, we suggest you to use the following scheme.

### NOTES

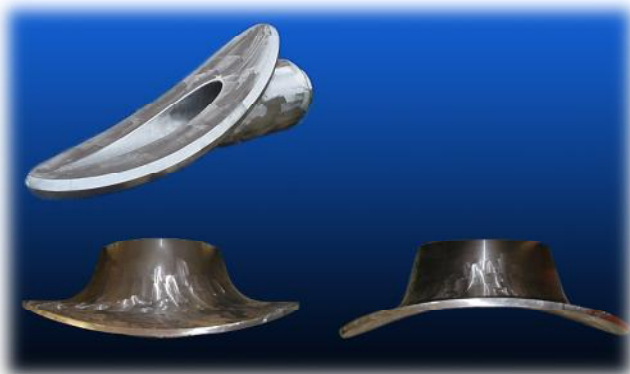
- 1) Design pressure, temperature and corrosion allowance (if available)
- 2) Insert megalet, Flanged insert megalet
- 3) All fittings are designed in accordance with ASME B&PV Code Section III (ASME B16.5 if flanged) unless otherwise specified.

## Photogallery



Designed for high pressure piping, according to chapter IX of ASME B31.3

Designed to resist acoustic fatigue



Designed and manufactured according to ASME B&PV Code Section III Subsection NB, for use in nuclear power plants

Available also flanged



Internal diameter up to 60"

<b>WARRANTY</b>	All products are warranted to be free from manufacturing defects for a period of one year from date of shipment, and any found to be defective within that period will be replaced without charge, provided (1) that the product was used as recommended and in accordance with approved installation and operating practices, (2) that its failure resulted from a manufacturing defect and not from damage due to corrosive, abrasive, or other wear normally to be expected in the services involved, (3) that the product was not modified or changed (unless written approval was given by MEGA), and (4) that written notice of such defect is delivered to MEGA during such one (1) year period. No labor costs or other expense or liability is assumed. This express warranty is in lieu of and excludes all other warranties, guarantees, or representations, expressed or implied. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.
<b>EXCLUSIONS</b>	Do not use MEGA products in aircraft or aerospace applications. No warranties, guarantees or representations of any kind are made with respect to such applications. Purchaser assumes all risks of any use in such applications and will indemnify and hold harmless MEGA against and from any claims, costs (including attorney's fees) and liabilities arising out of such use.
<b>PURCHASER'S REMEDIES</b>	The Purchaser's remedies with respect to any product furnished by MEGA hereunder that is found not to be in conformity with the terms and conditions of the contract because of breach of contract, breach of express or implied warranty, or negligence shall be limited exclusively to the right of replacement of such defective product or, at our option, repayment of our sale price of the product. In no event shall MEGA be liable for claims (based upon breach of contract, breach of express or implied warranty, or negligence) for any other damages, whether direct, immediate, foreseeable, consequential, or special or for any expenses incurred by reason of the use or misuse, sale or fabrication of products which do or do not conform to the terms and conditions of the contract.
<b>PRICES</b>	Prices, and other terms of sale and payment, are subject to change without notice. Unless a contrary provision appears in this price schedule, quotation or order acknowledgment, prices may be withdrawn without notice at any time. Stenographic or clerical errors are subject to correction.
<b>ACCEPTANCE OF ORDERS</b>	All orders are subject to MEGA credit department approval prior to acceptance by MEGA. No assignment of the Purchaser's rights may be made without the written consent of MEGA.
<b>REMITTANCES</b>	All accounts are payable in European funds, free of exchange, collection, or any other charges. If, in the sole discretion of MEGA, the financial condition of the Purchaser at any time so requires, MEGA retains the right to require full or partial payment in advance.
<b>PARTIAL SHIPMENTS AND PAYMENTS</b>	MEGA reserves the right to make partial shipments from time to time, and to render invoices therefore, which shall be due and payable as provided in said invoices and the paragraph entitled "Remittances". If the Purchaser becomes overdue in any such partial payment, MEGA shall be entitled to suspend work and/ or avail itself of other legal remedies.
<b>TAXES</b>	Unless otherwise specifically noted, the amount of any sale, use, occupancy, excise tax, or other tax, of any nature, federal, state, or local for which MEGA is legally liable, either initially or through failure of payment by Purchaser, shall be added or be in addition to the price quoted and Purchaser agrees to pay the same to MEGA.
<b>SHORTAGES</b>	Claims for shortages must be made in writing within ten days after receipt of shipment, but loss of or damage to material in transit is the responsibility of the carrier.
<b>DELAYS</b>	All promises of shipment are estimated as closely as possible, and we will use our best efforts to ship within the time promised but do not guarantee to do so, and assume no liability for not doing so. Materials stated to be in stock are subject to prior sale.
<b>CANCELLATION &amp; SUSPENSION</b>	The order or contract is subject to cancellation or instructions to suspend or delay work or delivery only upon receipt of written notification and with our consent, and upon agreement to pay MEGA's adjustment charge. Orders for special products (usually "price on application" items) may be changed and/or cancelled only upon receipt of written instructions with an expressed agreement to make payment for material used and work already performed.
<b>RETURN OF MATERIAL</b>	No product of our manufacture may be returned without written consent. All goods returned are subject to a handling charge plus freight in both directions and charges for any required reconditioning, unless otherwise specified in writing by MEGA.
<b>PATENTS</b>	Purchaser will indemnify and hold harmless MEGA against and from any claims, costs (including attorney's fees) and liabilities arising out of any suit alleging infringement of any patents, by any product supplied by MEGA under the contract and made in accordance with the design and/or specification furnished by the Purchaser to MEGA.
<b>NO WAIVER</b>	The failure of MEGA to insist, in any one or more instances upon the performance of any of the terms, covenants, or conditions of the contract or to exercise any right thereunder shall not be construed as a waiver or relinquishment of the future performance of any such term, covenant, or condition or the future exercise of such rights, nor shall it be deemed to be a waiver or relinquishment of any other term, covenant, or condition or the exercise of any other rights under the contract.
<b>DIES, TOOLS &amp; PATTERNS</b>	Dies, tools and patterns required to produce the article quoted on shall remain the property of MEGA. Preparation charges for dies, tools and patterns represent only a portion of cost. Payment of such charge does not give you any right, title, or interest in such dies, tools, or other products of preparation. We will not be responsible for retention of dies or patterns on which no orders are received for two years or more.
<b>FORCE MAJEURE</b>	Any delays in or failure of performance of MEGA shall not constitute default or give rise to any claims or damages if and to the extent that such delay or failure is caused by occurrences beyond the control of MEGA, including but not limited to acts of God or the public enemy, expropriation or confiscation of facilities, compliance with any order or request of any governmental authority, acts of war, rebellion or sabotage or damage resulting therefrom, embargoes or other export restrictions, fires, floods, explosions, accidents, breakdowns, riots or strikes or other conceived acts of workmen, whether direct or indirect, or any other causes whether or not of the same class or kind as those specifically above named which are not within the control of MEGA and which by the exercise of reasonable diligence, MEGA is unable to prevent or provide against.
<b>PURCHASER'S ACCEPTANCE OF ABOVE CONDITIONS</b>	The contract shall be subject to the terms and conditions contained or referred to in MEGA's price schedule, quotation or order acknowledgment and to no others whatsoever. No waiver, alteration, or modification of the terms and conditions in this price schedule, quotation or order acknowledgment shall be binding unless in writing and signed by an authorized representative of MEGA.

Note: The material in this catalog is for general information. For specific performance data and proper material selection, consult your MEGA representative. Although every attempt has been made to ensure that the information contained in this catalog is correct, MEGA reserves the right to change designs, materials or specifications without notice.