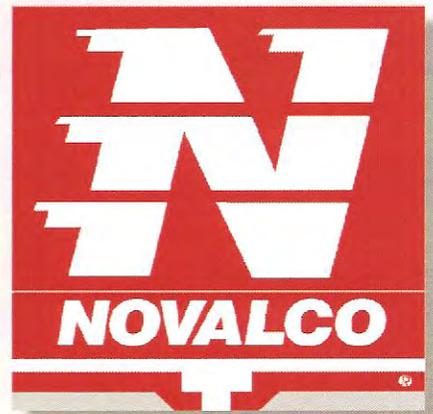
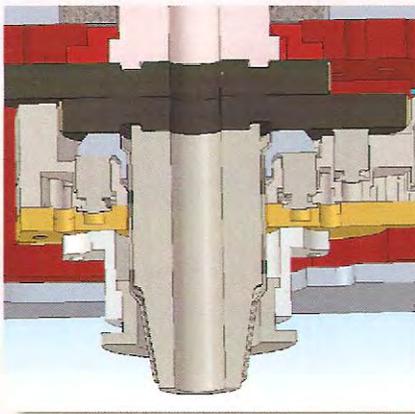
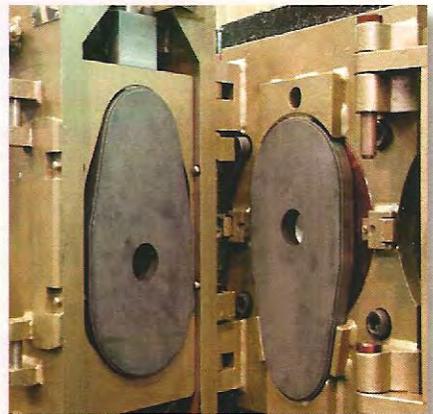


# REFRACTORARY PRODUCTS



## NOVALCO ECCENTRIC SLIDING GATE VALVE

As from the launching of the NOVALCO System along 1994, Deguisa has gained experience to develop the new generation of NOVALCO ECCENTRIC mechanism.

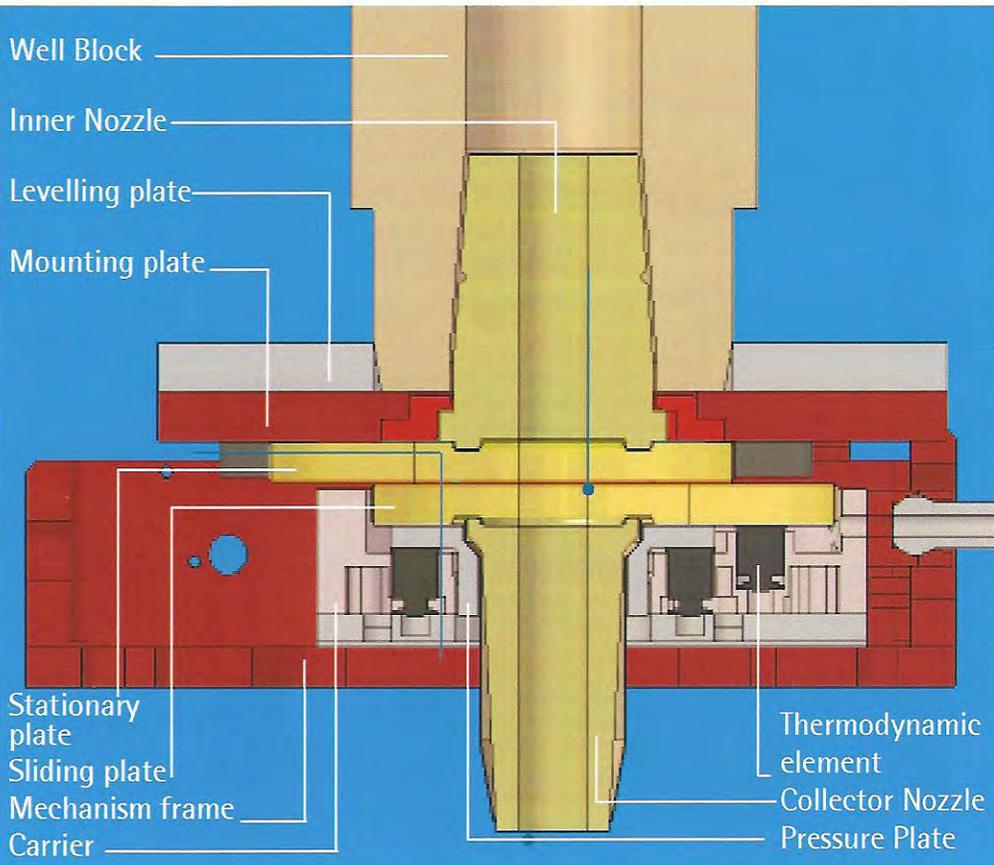
This new concept, besides guarantying the tightening by means of thermodynamic springs, strengthens its fastening with a new distribution of these elements, which has turned out in a new pressure plate which assures an optimum pressure distribution between plates. An independent element guarantees the necessary closing pressure in the casting orifice while the mechanism remains closed.

We have taken into consideration in the new NOVALCO ECCENTRIC refractories, the thermal and mechanic stress in order to reduce the risk of appearance of non controlled cracks and to improve the operational security, thanks to its most favourable geometry.

The ECCENTRIC NOVALCO system maintains the original configuration adopted by its predecessor and which consists in equal refractory plates, hot banded and with an independent collector nozzle through which the tightening between plates is produced and which so good performance has achieved as from its coming into service in 1994.

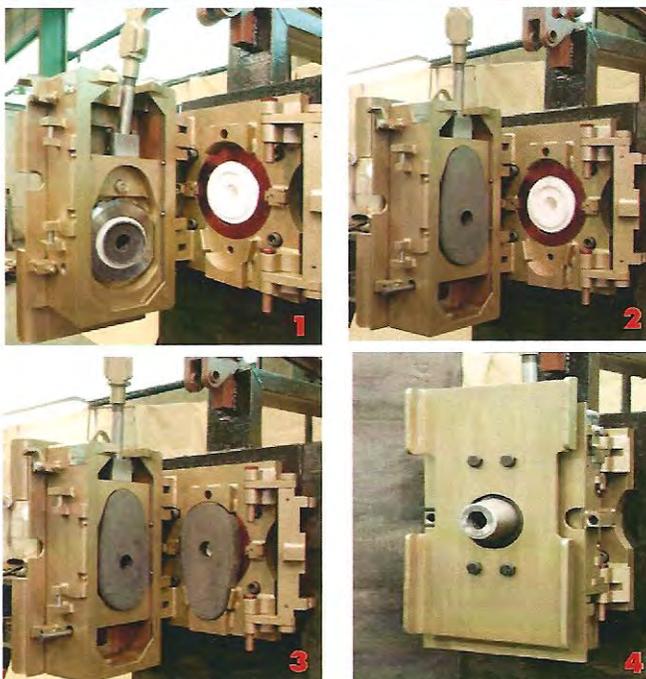
Refractory materials and mechanical parts are manufactured by Deguisa according to ISO 9001:2000 standards.

### NOVALCO SYSTEM MOUNTING SKETCH



MODEL	MAXIMUM CASTING HOLE	STROKE
NOVALCO 5200	55 mm.	140 mm
NOVALCO 7300	80 mm.	180 mm
NOVALCO 9400	105 mm.	230 mm.

### PASSEMBLING SYSTEM



### SLIDING GATE REFRACTORY

#### QUALITY

Process  
Main Component

#### SELECTION CRITERIA OF REFRA

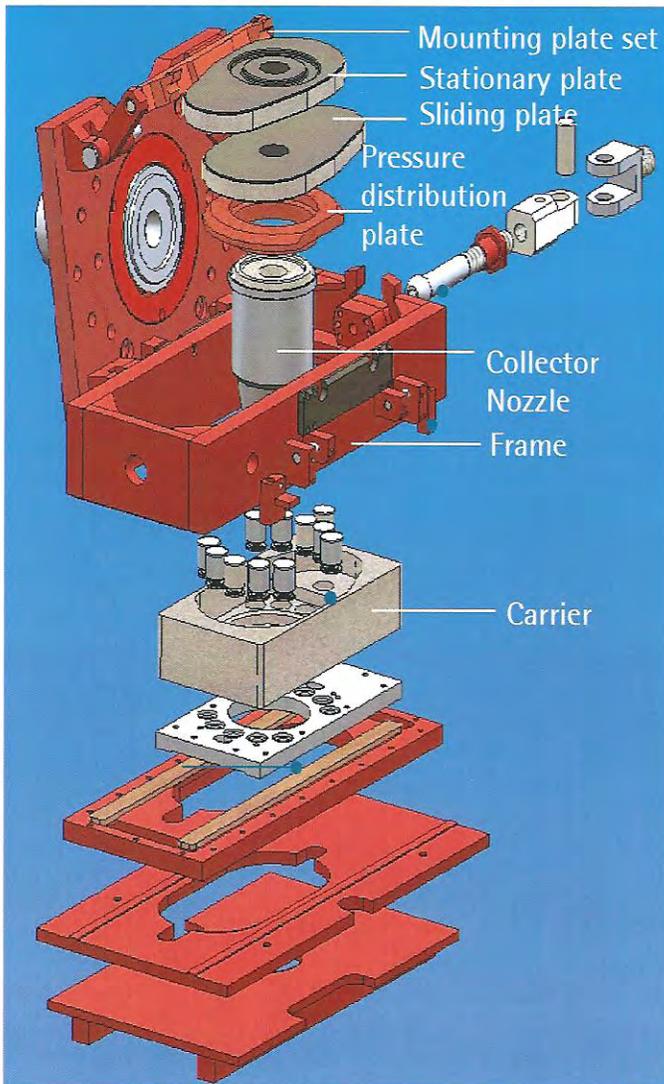
Many sides movements  
Strong throttle degree  
Long casting time  
High temperature of steel  
High content of Oxygen  
High content of Manganese  
Steel treatment with SiCa  
Thermal shock resistance

#### TYPICAL APPLICATIONS

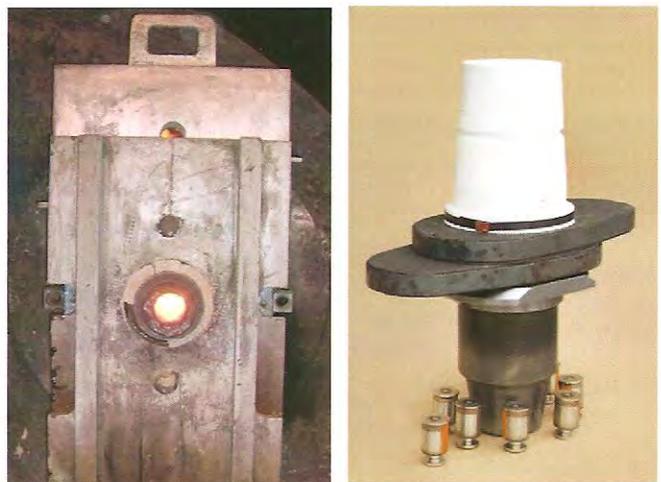
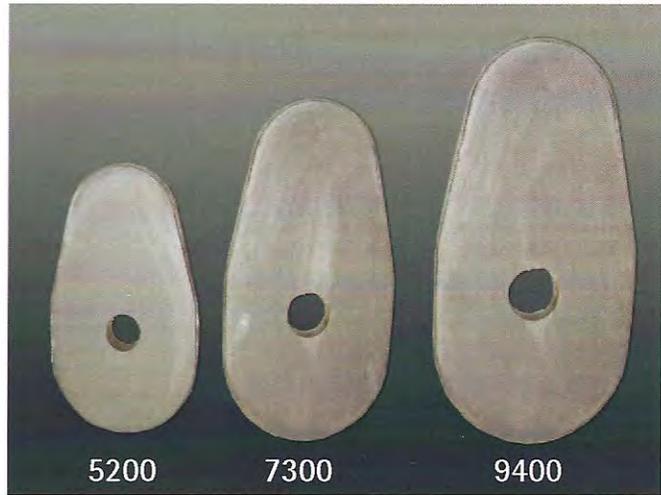
Plates  
Inner Nozzles  
Inserts  
Collector nozzles

P: Pressed / C: Cooked / I: ...

### NOVALCO SYSTEM GENERAL ARRANGEMENT



### NOVALCO SYSTEM ELEMENTS



In every Model there exists the H version, ready to carry out the closure operation of the mechanism by means of hydraulic cylinders.

### ORIES

PRD-95 I	MP 97 I	MEPA95 I	PRDZ8 I	MCM	ACA2	ACZ4	ACZ8
P+C+I+T	P+C+I+T	P+C+I+T	P+C+I+T	P+D	P+D	P+D	P+D
Tabular Alumina	Magnesite	Magnesia-Espinel	Alumina Mull. Zr.	Magnesia Carbon	Alumina Carbon	Al. Mull. Zr. C	Al. Mull. Zr. C

### TORIES

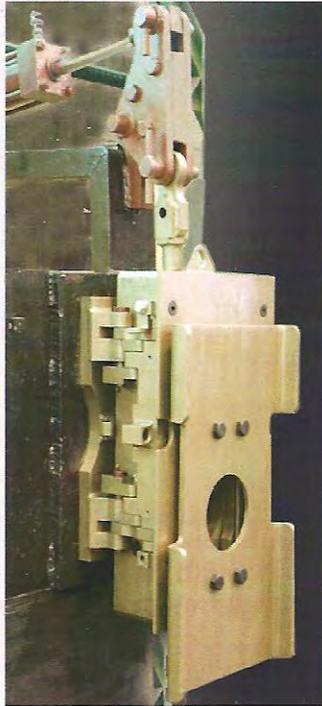
XX	-	X	XX	X	X	XX	XXX
XXX	X	X	XXX	XX	X	XX	XX
X	XX	XXX	X	X	X	X	XX
X	XXX	XX	XX	XX	XX	X	XX
-	XXX	X	-	XX	-	-	X
-	XX	XX	-	XX	X	X	X
-	XX	XX	-	XX	-	X	X
XX	-	-	XX	X	X	X	XX
YES							
YES							
YES							
YES							

ar Impregnated / T: Tempered / D: Dried / XXX: Excellent/ XX: Good / X: Acceptable / - : Unsuitable

HIDRÁULIC MECHANISM



MANUAL MECHANISM



NOVALCO mechanisms are delivered with their corresponding CE Certificate



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THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

IQNet and  
AENOR  
hereby certify that the organization

**DEGUISA, S.A.**

PISARACHO, S/N  
01470- AMURRIO(ALAVA)  
España

for the following field of activities

The design, production and marketing of unshaped refractory materials, shaped refractory materials (pressed and cast).  
The assembly of plates and nozzles for sliding gate valve systems.  
The design, production, supply, erection and commissioning of combustion and control systems for industrial thermal processes.  
The design, production and supply of mechanisms for sliding gate valves.

has implemented and maintains a

**Quality Management System**

which fulfills the requirements of the following standard

**ISO 9001:2008**

Issued on: 1999-08-01

Renewed on: 2012-03-04

Validity date: 2015-03-04

**Registration Number: ES-0098/1996**



  
*Michael Drechsel*  
President of IQNet

  
**AENOR** Asociación Española de Normalización y Certificación  
*Avelino BRITO*  
Chief Executive Officer

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