

**CASE
HISTORY
REPORT**



INPRO/SEAL

Company : **EXXON** Location: **Notre Dame de Gravenchon
FRANCE**

Industry: **PETROCHEMICAL** Application : **Cooling Tower Gearbox**

The EXXON Polymer plant in Gravenchon produces ethylene and propylene for plastic.

The cooling tower gearboxes are regularly repaired because of bearing failure. The high level of humidity is responsible for contamination.

Exxon Polymer started to install INPRO/SEAL Bearing Isolators on Horizontal and Vertical shaft of Hansen transmissions gearbox.

Up to date NO CONTAMINATION have been observed in the oil.

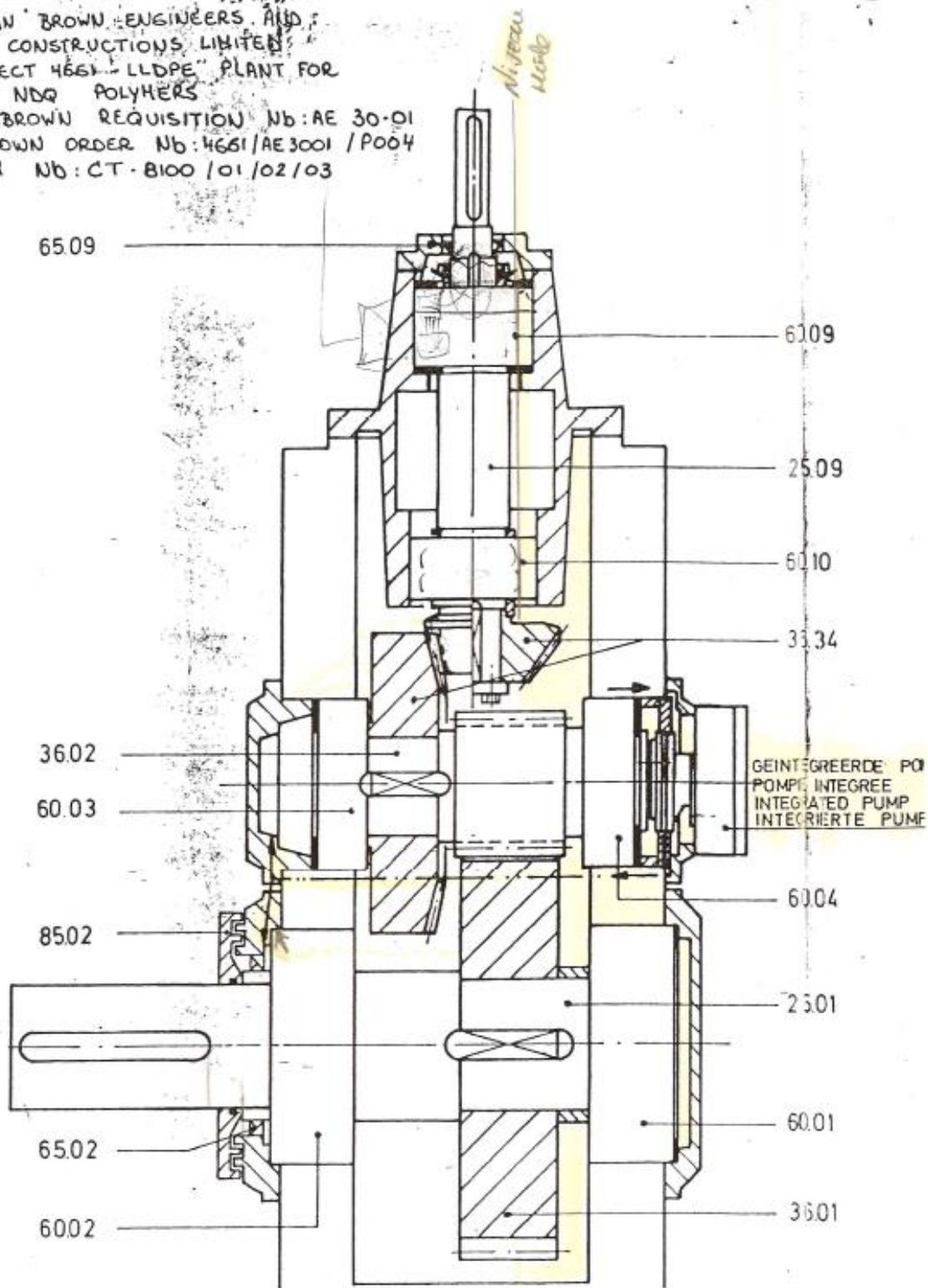
TECHNICAL DESCRIPTION:

Inpro/Seal : VBXX VERTICAL UP DESIGN – 30 mm OAL, Ø 110 mm.
VBXX DOUBLE D OIL GROOVE, Ø 65 mm.

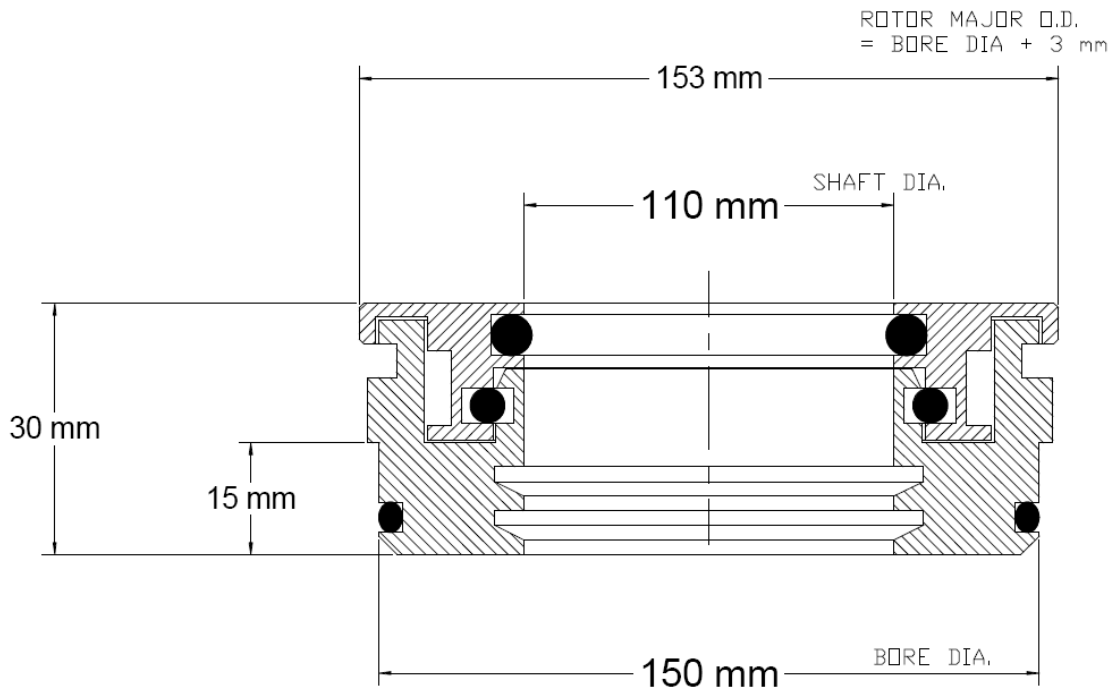
ExxonMobil



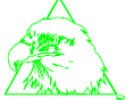
JOHN BROWN ENGINEERS AND
CONSTRUCTIONS LIMITED
PROJECT 4661 - LLDPE PLANT FOR
NDQ POLYMERS
JOHN BROWN REQUISITION Nb: AE 30-01
JOHN BROWN ORDER Nb: 4661/AE3001/P004
ITEM Nb: CT-8100/01/02/03

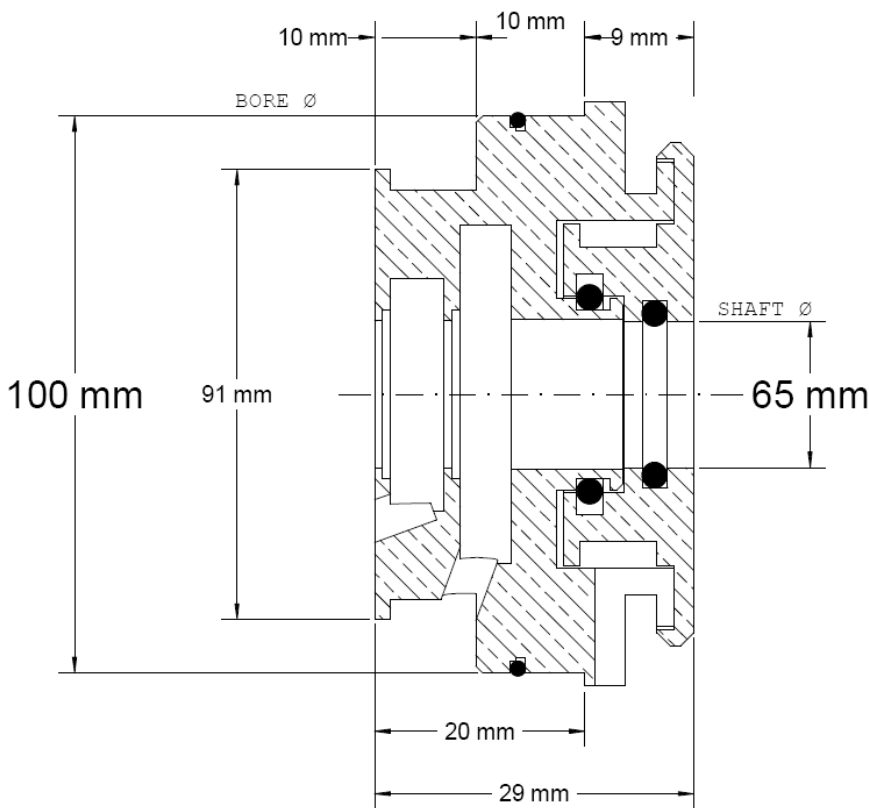


Montage Correct




**.900" OAL VERTICAL UP VBXX DESIGN
LOW HEAD WITH NO PORTS with
0,3 mm RADIAL PLAY**

REVS:	XXX	THIS DRAWING INCLUDING THE DESIGN AND PRINCIPLES OF CONSTRUCTION DISCLOSED IS THE PROPERTY OF INPRO COMPANIES, INC. AND IS SUBMITTED WITH THE UNDERSTANDING THAT IT IS NOT TO BE REPRODUCED NOR COPIED IN WHOLE OR IN PART NOR LOANED OR OTHERWISE COMMUNICATED TO ANY THIRD PARTY NOR USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF INPRO COMPANIES, INC. ACCEPTANCE OF THIS DRAWING WILL BE CONSTRUED AS AN AGREEMENT TO THE ABOVE.	U.S. PATENTS:		INPRO/SEAL	
REVS:			5,378,000	5,069,461	BEARING ISOLATOR	
REVS:			5,335,921	4,989,883	DATE XXXXXX	TNOXXXX
		5,221,095	4,706,968	AND OTHERS PENDING		
		5,161,804	4,466,620			
		5,158,304	4,304,409			
		5,137,049	4,175,752			
		5,074,567	4,114,902			



**VBXX DOUBLE D OIL GROOVE
1,5 mm FLOATING O-RING
WITH 29 mm OAL AND
20 mm INSERTION**

REVS:	MCB	THIS DRAWING INCLUDING THE DESIGN AND PRINCIPLES OF CONSTRUCTION DISCLOSED IS THE PROPERTY OF INPRO COMPANIES, INC. AND IS SUBMITTED WITH THE UNDERSTANDING THAT IT IS NOT TO BE REPRODUCED NOR COPIED IN WHOLE OR IN PART NOR LOANED OR OTHERWISE COMMUNICATED TO ANY THIRD PARTY NOR USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF INPRO COMPANIES, INC. ACCEPTANCE OF THIS DRAWING WILL BE CONSTRUED AS AN AGREEMENT TO THE ABOVE.	U.S. PATENTS:		INPRO/SEAL	
REVS:			5,378,000	5,069,461	BEARING ISOLATOR	
REVS:			5,335,921	4,989,883	DATE	
		5,221,095	4,706,968	AND OTHERS PENDING		
		5,161,804	4,466,620			
		5,158,304	4,304,409			
		5,137,049	4,175,752			
		5,074,567	4,114,902			