

Technology Offer

Fluid distributor used in hydraulic or pneumatic actuating installations

Summary

A Romanian research institute has developed a fluid distributor that works under pressure and manoeuvred by spin, which can be used either in hydraulic or pneumatic actuating installations. An industrial partner is sought, for assembling and engineering the fluid distributor, under commercial agreement with technical assistance.

Creation Date	18 July 2013
Last Update	03 March 2016
Expiration Date	28 June 2016
Reference	09 RO 78EG 3DYD

Details

Description

A Romanian research institute has developed a fluid distributor that can be used in various hydraulic or pneumatic actuating installations. The fluid distributor consists of a body provided with some conduits and joints to a pump, a consumer and a return basin. The distribution scheme can be changed by the means of a frontal disc bell which acts over some closing balls of the distribution orifices. The distribution scheme between the pump, a certain consumer and the return basin can be changed, not needing the disassembling of the distributor from the hydraulic installation.

The fluid distributor has already been tested in laboratory conditions by the Romanian research institute, representing the subject of a Romanian granted patent.

Current and Potential Domain of Application: Hydraulic or pneumatic actuating installations.

Advantages and Innovations

The novelty of the developed hydraulic distributor consists in the fact that the distribution scheme between the pump, consumer and return basin can be changed, not needing the disassembling of the distributor from the hydraulic installation.

Advantages of the fluid distributor:

- has a simple manufacturing technology;
- has a compact and reduced size;
- can be directly mounted on the communication pipes route;
- tight distribution sealing;
- low manufacturing cost, high fiability, low maintenance cost.

Stage of Development

Under development/IAB tested

IPR Status

Patents granted

Profile Origin

National or Regional R&D programme

Keywords

Technology

002006002	Civil engineering
002006005	Mechanical Engineering, Hydraulics, Vibration, ...
005008	Hydraulics
03003	Apparatus Engineering

Market

009007001	Construction
08003007	Other industrial equipment and machinery

NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering
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Network Contact

Issuing Partner

NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR OPTOELECTRONICS

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Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

Romania

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: industry
- Specific area of activity of the partner: mechanics and hydraulics
- Task to be performed: in the commercial agreement with technical assistance, the industrial partner will assemble the fluid distributor, using appropriate equipments and qualified personnel. The Romanian research institute will support its partner with effective start-up and technical consultancy.

Type and Size of Partner Sought

SME 11-50, SME <10

Type of Partnership Considered

Commercial agreement with technical assistance