



# **ISO/TC 131 – Fluid power standards for the world**

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*ISO/TC 131 – Fluid power standards for the world*

- Introduction to ISO/TC 131
- Key standards published recently
- Key projects in development
- Responsiveness to needs of industry and customers
- Wrap-up



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- **What is ISO?**
  - A federation of more than 120 national standards bodies
  - Responsible for standardization in all areas of technology, except electrical and electronic



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- **What is ISO/TC 131?**

- Technical committee founded in 1969, responsible for standardization for hydraulic and pneumatic components and systems
- Committed to developing the standards the global fluid power industry needs



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## • **What are International Standards?**

- Tools for marketing worldwide
- Agreements developed by technical experts and approved via a system of national representatives
- Documents that set down
  - requirements for dimensional and functional interchangeability,
  - methods for measuring, verifying and reporting performance
  - means to facilitate communication



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- **Where do ideas for International Standards come from?**
  - People already involved
  - Developments in industry
  - Problems identified by industry and its customers



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- **Who does the work?**
  - Working groups of experts from five or more countries
  - National committees that provide input to the experts and determine national positions for relevant ISO ballots
  - System is based on transparency and the opportunity for participation by all affected stakeholders



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- **Who benefits?**

- The fluid power industry as a whole
- Customers
- Manufacturers
- Educators



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## **Key standards published recently**

- ISO 1219-1:2006  
(fluid power graphic symbols)
- ISO 19973:2007 series  
(pneumatic component reliability)
- ISO 1179:2007 series  
(ports and stud ends with ISO 228-1 threads)



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## **Key standards in development**

- ISO/CDs 4413 and 4414  
(general rules and safety requirements for hydraulic and pneumatic systems and components)
- ISO/FDIS 5598  
(fluid power vocabulary)



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## **Key standards in development, concluded**

- ISO/DIS 6358 series  
(flow rating of pneumatic components)
- ISO 3601 series  
(O-ring dimensions, identification codes, housings and anti-extrusion devices)
- ISO/AWI 18409  
(method for obtaining a sample to analyze cleanliness of hydraulic hose)



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- **How is ISO/TC 131 accountable to the fluid power industry and its customers?**
  - TC makes its business plan available to the public.
  - Companies evaluate value received from their support of experts' participation.
  - Trade associations and national standards bodies evaluate value received from their support for TC administration.



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- **How can industry help improve the quality of International Standards for fluid power?**
  - Support employees' participation in international working groups and national committees
  - Propose ideas for projects that provide value for industry and its customers
  - Use International Standards and submit suggestions for improvement



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## **Wrap-up**

- International Standards are tools for marketing fluid power worldwide.
- ISO/TC 131 is committed to developing the standards the global fluid power industry needs.
- The process of developing International Standards is open to all stakeholders – manufacturers, users, educators, etc.



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What questions do you have?



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**Thank you!**