

This is a preview of "ISO 6162-2:2018". [Click here to purchase the full version from the ANSI store.](#)

Third edition
2018-03

Hydraulic fluid power — Flange connections with split or one-piece flange clamps and metric or inch screws —

Part 2:

Flange connectors, ports and mounting surfaces for use at a pressure of 42 MPa (420 bar), DN 13 to DN 76

Transmissions hydrauliques — Raccordements à bride avec demi-bridés ou bride monobloc et vis métriques ou en inches —

Partie 2: Brides, orifices et surfaces de montage pour utilisation à une pression de 42 MPa (420 bar), de DN 13 à DN 76



Reference number
ISO 6162-2:2018(E)

© ISO 2018



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of "ISO 6162-2:2018". [Click here to purchase the full version from the ANSI store.](#)

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Material	2
5 Selection	3
6 Dimensions and tolerances	4
7 Corrosion protection	4
8 Pressure/temperature requirements	5
9 Marking	5
10 Designation of flange connections and their parts	6
Annex A (informative) Recommended assembly procedures and screw torque levels for flange connections conforming to ISO 6162-2	18
Annex B (informative) O-ring designation codes and dimensions	20
Bibliography	21

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/ TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components*.

This third edition cancels and replaces the second edition (ISO 6162-2:2012), which has been technically revised. In this edition, a new part number designation is used, the position of the identification groove is corrected, and other minor changes were made for clarification.

A list of all the parts in the ISO 6162 series can be found on the ISO website.

Changes to this addition include the following:

- restructuring the wording to follow new rules;
- changing [Clause 10](#) Designation of flange connections and their parts to conform to the ISO/IEC Directives, Part 2;
- moving the identification groove on the flange head to reflect the correct position;
- changing the drawings to improve clarity;
- adding chamfers to the top of the O-ring groove and clarifying other chamfer notes;
- adding a perpendicular requirement to the tapped holes on the port.

This is a preview of "ISO 6162-2:2018". [Click here to purchase the full version from the ANSI store.](#)

Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. Components are interconnected through their ports and associated fluid conductor connector ends.