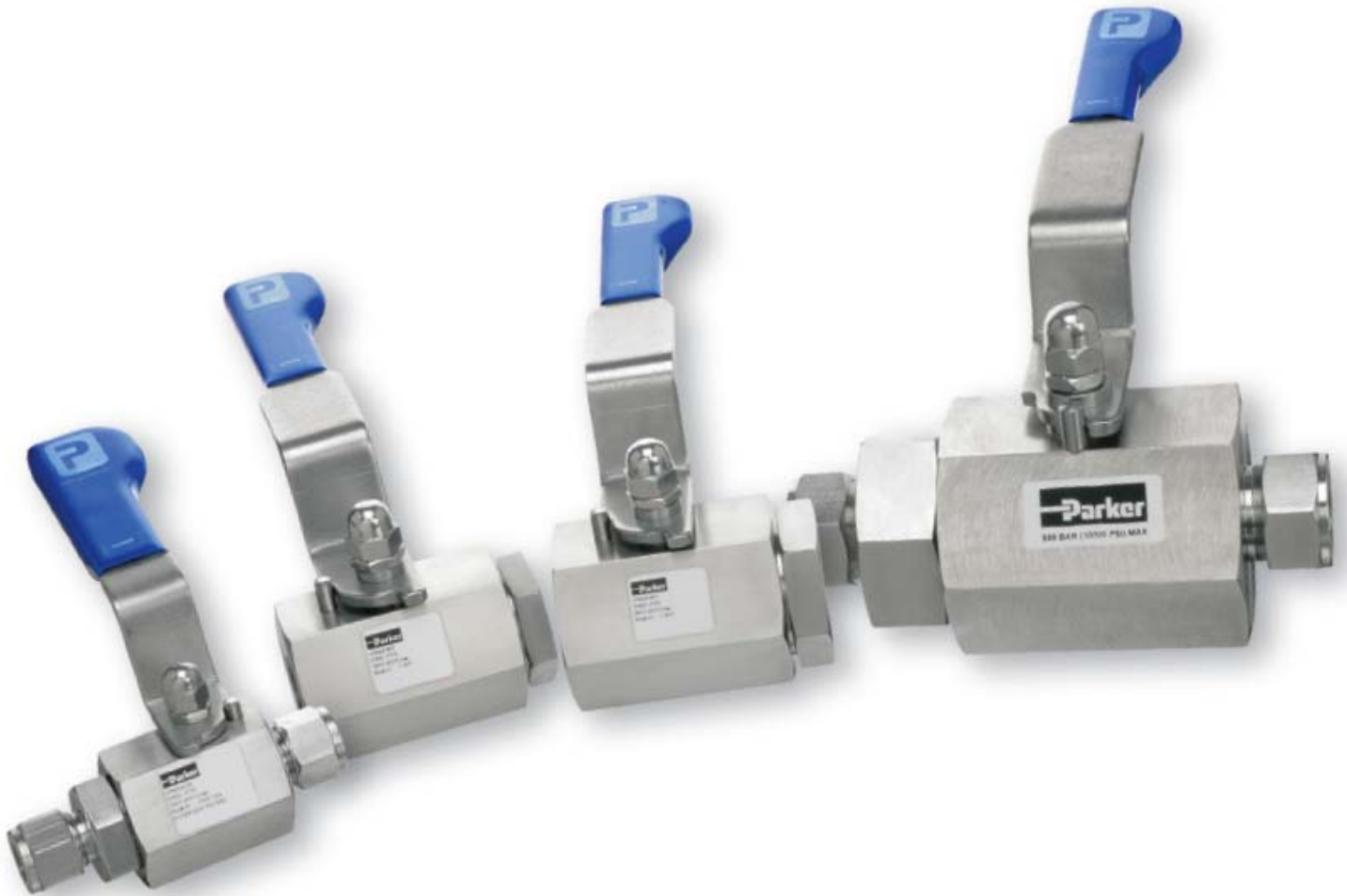


IPDE-IOM-HI-PRO  
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# Installation and Operation Manual

## Hi-Pro Ball Valves



ENGINEERING YOUR SUCCESS.

## Installation and Operation Manual Hi-Pro Ball Valves

### Parker Hannifin

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**Telephone:** (01271) 313131  
**E-mail:** IPDE.Technical@support.parker.com

### IDENTIFICATION OF HAZARDS

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NEVER adjust valves under pressure.  
NEVER slacken or remove any valve parts under pressure.  
NEVER use any mechanical aids i.e. wrenches, extensions to operate handles.  
NEVER carry ball valves by the handle.  
NEVER obscure valve body marking.  
NEVER remove end connectors.

### INSTALLATION

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Wear suitable PPE before installation and follow appropriate site safety procedures.

Before installation, ensure that all valves are in the closed position.

**NPT:** Use standard practice for NPT taper threads. Use an appropriate thread tape or sealant to prevent galling.

**A-lok/CPI:** See separate instruction sheet supplied with A-lok products. For full instruction and best practice on fabrication and installation of tube and A-lok/CPI tube fittings, scan the QR code below.\*



When fitting A-lok/CPI, care should be taken to ensure that the end connector (1) (*fig1*) is firmly held by an appropriate spanner / wrench (the size varies depending on the size of valve) to prevent any movement when assembling or disassembling pipe or tube connections.

**O-Lok:** Take care to not damage the captive O-ring. For full instructions on O-lok assembly and installation, please refer the O-lok section on page 55 of our Tube Assembly Guide which can be found by scanning the QR link below. \*



\*For text versions of these QR codes, please See 'Further Information' at the end of this guide.

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## Hi-Pro Ball Valves

### HANDLING AND STORAGE

#### Handling

Large bore Hi-Pro Ball Valves may be heavy. Ensure that local manual handling requirements are followed.

Do not lift or carry by the operating handles, as this may cause damage.

#### Storage

There is no specified shelf-life.

Boxed products should be stored in a covered area, preferably indoors, and away from excessive moisture, heat, or airborne contaminants.

The use of desiccant or corrosion inhibitors is not required during normal storage periods.

### OPERATION

#### Hi-Pro Ball Valve:

To close: Operate the handle (17) until it is at 90° from the valve body centreline.

To open: Operate the handle (17) until it is in line with the centreline of the body and reaches the stop pin (12).

Movement is limited to 90° by a mechanical stop pin.

Ball valves should always be fully open or fully closed. Do not leave in a mid-position.

### Part description

Item	Description
1	End Connector
2	E-seal™
3	Sealing washer
4	Seats
5	Body
6	Ball
7	Anti blowout stem
8	Thrust Seal
9	Gland packing
10	Upper gland packing
11	Thrust bush
12	Stop pin
13	Thrust bush
14	Lock nut
15	Locking dome nut
16	Handle
17	Handle grip

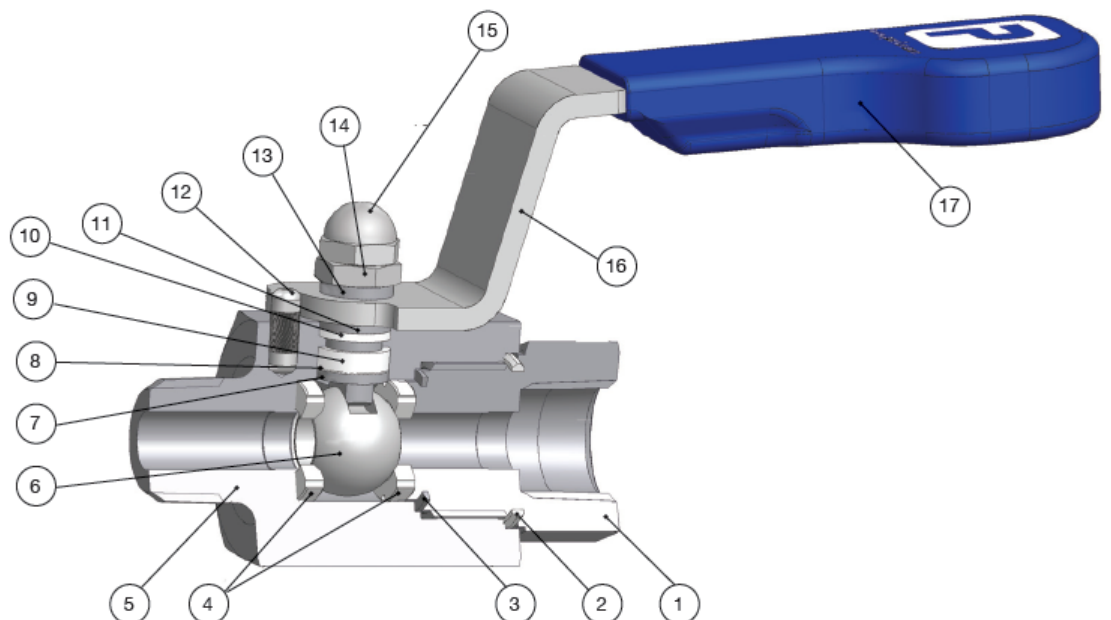


Figure 1

## Installation and Operation Manual Hi-Pro Ball Valves

### MAINTENANCE

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Parker Hi-Pro Ball Valves are not user-serviceable.

### FURTHER INFORMATION

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#### Cv values:

10mm bore: 6.4  
15mm bore: 15  
20mm bore: 31  
25mm bore: 39

For full offering of Parker Hi-pro Ball Valves, please see Parker catalogue 4190-HBV at:

<https://www.parker.com/content/dam/Parker-com/Literature/Instrumentation-Products-Division-Europe/4190-HBV.pdf>

#### Text versions of QR codes

<https://qr.parker.com/203785> Tube Fitting Installation Manual (A-lok/CPI)  
<https://qr.parker.com/203784> Tube Assembly (O-lok: please refer to page 55)