

PARKER HANNIFIN MANUFACTURING LIMITED

INSTRUMENTATION PRODUCTS DIVISION

EUROPE

RIVERSIDE ROAD

BARNSTAPLE

DEVON EX31 1NP

United Kingdom

Telephone: +44(0)1271 313 238

Fax: +44(0)1271 373 636



MA Certificate No.

14-BI2650558-X1

Tier: 3

Product: Valve

Model: H, HRPV, HPB, HPM, HCY, H8B, MF, PB, FC, HAHM, HPDM, HCDM, CC, HPRV, 20K, HNV, HGV, VG, HVG and HYNV

Intended Service:

Valves for marine and offshore tube / pipe systems: hydraulic, pneumatic, instrumentation, refrigeration

Description:

'H' Series Compact Distribution Manifold, Series HCDM:

Distribution manifold unit in choices of 5 or 10 metal seated needle valves with PTFE gland packing.

20K H-Series needle valves & 20K Hi-Pro Ball valve: with PTFE gland packing

Hi-Pro Distribution Manifold, Series HPDM:

Modular Distribution Manifold with up to 20 Parker Hi-Pro ball valve outlets.

HPRV Proportional Relief valve: with moulded seat, orifice size of 3.6 mm, and maximum relieving flow of water 1.686 l/min @ 150 psi with zero back pressure & air 313 l/min @ 150 psi with zero back pressure.

Globe valves, HNV, HGV and VG Series: with PTFE or graphite gland packing.

H Series rising plug valves (HRPV series): with PTFE packing & PEEK soft seat

Multi-port gauge valves (HGV series): with PTFE or graphite gland packing.

Single port gauge valves with vent (HVG series): with PTFE or graphite gland packing.

Outside screw and yoke globe pattern needle valves (HYNV series): with PTFE or graphite gland packing.

Hi-Check Non-Return Valve: with Nitrile, Fluorocarbon, Ethylene Propylene Rubber (EPR) and Highly Fluorinated Fluorocarbon Rubber seats

'H' Series 3 and 5 valve differential pressure manifolds: with PTFE or graphoil gland packing

Double Block and Bleed Flanged Products with Fugitive Emission options:

Parker Pro-Bloc:

One-piece integral forging incorporating up to 3 ball valves or mixture of ball and needle design, with PTFE packing, PEEK ball & needle seats.

Parker Monoflange (MF) manifolds:

Combination of needle and Outside Screw & Yoke valves, with PTFE or graphoil gland packing

Parker Hi-Pro Manifolds:

Combination of ball and needle valves with traditional NPT threaded connections

Hi-Pro ball valve for high performance process isolation: two piece bi-directional ball valves with PTFE and Graphoil gland packings & PEEK and PTFE ball seat materials.

'H' Series Two valve manifolds: with PTFE or graphoil gland packing

H series large bore needle / globe isolation valves: metal seated globe style needle isolation valves.

PARKER HANNIFIN MANUFACTURING LIMITED

INSTRUMENTATION PRODUCTS DIVISION

EUROPE

RIVERSIDE ROAD

BARNSTAPLE

DEVON EX31 1NP

United Kingdom

Telephone: +44(0)1271 313 238

Fax: +44(0)1271 373 636



MA Certificate No.

14-BI2650558-X1

Tier: 3

High Pressure "H" & "Y" Distribution Manifold, Series: DM (H or Y): High Pressure Distribution Manifold with up to 20 globe style needle valves. Alternatively using outside screw and yoke style (O.S. & Y.) valves.

Hi-Pro Air Header Manifold, Series: HPAHM: High Pressure Air Header Manifold with up to 20 Parker Hi-Pro ball valve outlets, assembled to manifold body using welded nipple to taper threaded connection.

Ratings:

Consult Pressure- Temperature Curve in Manufacturer's Catalogue.

'H' Series Compact Distribution Manifold, Series HCDM:

Maximum pressure: 6,000 psi (414 bar), Maximum Temperature: 260 C, Material: 316 Stainless steel

20K H-Series needle valves:

Maximum pressure: 20,000 psi (1379 bar), Temperature rating: -54 C to +200 C, Material: 316 Stainless steel

20K Hi-Pro ball valves:

Maximum pressure: 20,000 psi (1379 bar), Temperature rating: -20 C to +200 C, Material: 316 Stainless steel

Hi-Pro Distribution Manifold, Series HPDM:

Maximum pressure: 6,000 psi (414 bar), Temperature rating: -54 C to +232 C, Material: 316 Stainless steel

HPRV Proportional Relief valve:

Maximum pressure: 6,000 psi (414 bar), Temperature rating: -57 C to +204 C, Material: 316 Stainless steel

Globe valves, HNV, HGV and VG Series:

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +538 C, Material: 316 Stainless steel

H Series rising plug valves (HRPV series):

Maximum pressure: 10,000 psi (689 bar), Temperature rating: maximum +200 C, Material: 316 Stainless steel

Multi-port gauge valves (HGV series):

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +538 C, Material: 316 Stainless steel

Single port gauge valves with vent (HVG series):

Maximum pressure: 6,000 psi (414 bar), Temperature rating: -54 C to +538 C, Material: 316 Stainless steel

Outside screw and yoke globe pattern needle valves (HYNV series):

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +538 C, Material: 316 Stainless steel

Hi-Check Non-Return Valve:

Maximum pressure: 10,000 psi (689 bar), Material: 316 Stainless Steel, Duplex, Monel

Temperature rating:

Nitrile seated: -34 C to +135 C,

Fluorocarbon seated: -26 C to +204 C,

EPR seated: -57 C to +135 C and

Highly Fluorinated Fluorocarbon Rubber seated: -26 C to +93 C

'H' Series 3 and 5 valve differential pressure manifolds:

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +538 C, Material: 316 Stainless steel

PARKER HANNIFIN MANUFACTURING LIMITED

INSTRUMENTATION PRODUCTS DIVISION

EUROPE

RIVERSIDE ROAD

BARNSTAPLE

DEVON EX31 1NP

United Kingdom

Telephone: +44(0)1271 313 238

Fax: +44(0)1271 373 636

MA Certificate No.

14-BI2650558-X1

Tier: 3



Double Block and Bleed Flanged Products with Fugitive Emission options:

Parker Pro-Bloc Manifolds:

Material: Carbon Steel, Stainless Steel, Monel, Duplex, Super Duplex, Hastelloy, Low Temp. C. St., 6Mo, 825, Inconel 625; Flange Class: 150 to 10K

Parker Monoflange (MF) Manifolds:

Material: Carbon Steel, Stainless Steel, Monel, Duplex, Super Duplex, Hastelloy, Low Temp. C. St., 6Mo, Inconel 625; Flange Class: 150 to 2500

Parker Hi-Pro Manifolds:

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +232 deg C, Material: 316 Stainless steel

Hi-Pro ball valve for high performance process isolation:

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +232 degC, Material: 316 Stainless steel

'H' Series Two valve manifolds:

Maximum pressure: 10,000 psi (689 bar), Temperature rating: -54 C to +538 degC, Material: 316 Stainless steel

H Series Large Bore

Service Restrictions:

Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances must be clearly defined.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. All valves are to be hydrostatically tested by the manufacturer and are to bear the trademark of the manufacturer legibly stamped or cast on the exterior of the valve, as well as the pressure rating.
3. Copies of the certificate material test reports are to be made available to the attending Surveyor and are to be traceable to the material.

Notes / Drawings / Documentation:

1) Parker Product Catalogs: Cat 4190-DM, Catalog 4190-HH/20K, Cat 4190-HPDM, Catalog 4190-HPRV, Catalog 4190-HV, Catalog 4190-PD, Cat 4190 CV, Catalog 4190-FM, Catalog 4190-FP, Catalog 4190-FP-ACC, Catalog 4190-HBM, Catalog 4190-HBV, Catalog 4190-PM, Catalogue 4190-CCIMS & Cat. 4190-HH/LBV.

2) Parker Hannifin Ltd, Fire Safe testing to BS6755 Part 2, on 10mm Ball Valve with PTFE seats, report no. NP466-Valve 0.888 dated 08 Sept 2008, witnessed by Lloyd's Register dated 26 August 2008.

3) Parker Hannifin Ltd, Fire Safe testing to BS6755 Part 2, on 4mm Needle Valve, report no. NP467-Valve 0.888 dated 08 Sept 2008, witnessed by Lloyd's Register dated 05 Sept 2008.

4) TUV SUD Industrie Service GmbH, Technical Report no. IS-DDB-MAN/155/08 dated 28 Aug 2008.

5) TUV SUD Industrie Service GmbH, Technical Report no. IS-DDB-MAN/156/08 dated 15 Oct 2008.

6) Test Certificate from Lloyd's Register, no. SOU0700156/A1 dated 24 Sept 2007.

7) Test Certificate from Lloyd's Register, no. SOU0700212/1 dated 24 Sept 2007.

PARKER HANNIFIN MANUFACTURING LIMITED

INSTRUMENTATION PRODUCTS DIVISION

EUROPE

RIVERSIDE ROAD

BARNSTAPLE

DEVON EX31 1NP

United Kingdom

Telephone: +44(0)1271 313 238

Fax: +44(0)1271 373 636



MA Certificate No.

14-BI2650558-X1

Tier: 3

8) Fire Test Report Valve 8mm 10K Needle, Report No: 282539-0001,

9) Fire Test Report Valve 4mm 10K Needle, Report No: 296818-0001,

10) OS&Y Needle Valve - Fire Test Assembly - HYNVS8FFHPFS

11) KCO Valve Fire Test Assembly - REV D

12) This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Product Design Assessment (PDA) Certificate 14-GD1214186-PDA, dated 18/Sep/2014 remains valid until 17/Sep/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

ABS Rules for Building and Classing Steel Vessels (2014), 1-1-4/7.7, 1-1-App. 3 & 4, 4-6-1/7.5.2 4-6-2/3, 4-6-2/5.11, 4-6-2/5.13, 4-6-2/5.17, 4-6-1/7.5.2,

ABS Rules for Building and Classing Steel Vessels under 90 Meters in Length (2014) 1-1-4/7.7, 1-1-App. 3 & 4, 4-4-2/11,

ABS Rules for Building and Classing Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-App. 3 & 4, 4-6-2/5.11, 4-6-2/5.13, 4-6-2/5.17,

ABS Rules For Building and Classing Mobile Offshore Drilling Units 2014, 1-1-4/9.7, 1-1-App. 2 & 3, 4-2-2/9,

ABS Guide For Classification of Drilling System 2012, 5/3.3,

ABS Rules for Conditions of Classification – Offshore Units and Structures 2014 1-1-4/9.7, 1-1-App. 2&3

National:

NA

International:

BS 6755-2:1987, API 607 6th Edition:September 2010, API 6FA 3rd Edition:April 1999, VDI 2440:2000, ISO 15848-1:2006, ANSI B 16.34, ASME B 31.1, ASME B 31.3, ASME VIII, MSS SP 99

Government Authority:

NA

EUMED:

NA

Others:

PARKER HANNIFIN MANUFACTURING LIMITED

INSTRUMENTATION PRODUCTS DIVISION

EUROPE

RIVERSIDE ROAD

BARNSTAPLE

DEVON EX31 1NP

United Kingdom

Telephone: +44(0)1271 313 238

Fax: +44(0)1271 373 636



MA Certificate No.

14-BI2650558-X1

Tier: 3

NA

