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JUMO Instrument Co. Ltd.

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JUMO Process Control, Inc.

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Manifolds



2-valve manifold

Brief description

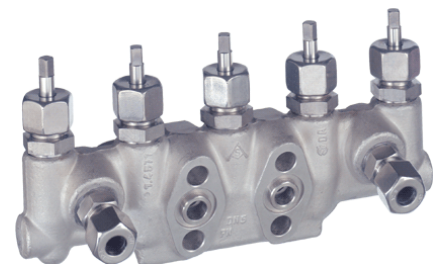
Manifolds are used in conjunction with pressure measuring instruments. They are used as a shut-off valve and for adjusting the zero point of the pressure measuring device.

Overview

Type	Application	Page
2-valve manifold	Relative and absolute pressure measuring instruments	2 - 3
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3-valve manifold



5-valve manifold

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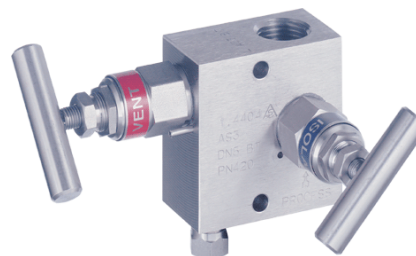
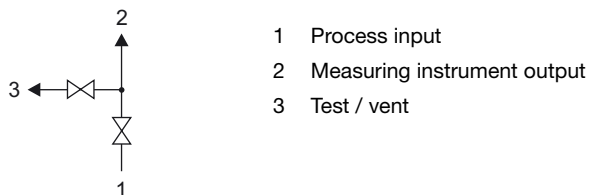
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2-valve manifold PN 420 DN 5 for pressure measuring instruments with 1/2" NPT and G1/2 connection

Connection diagram

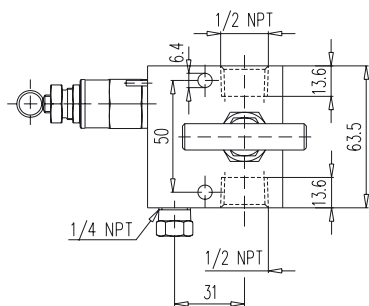
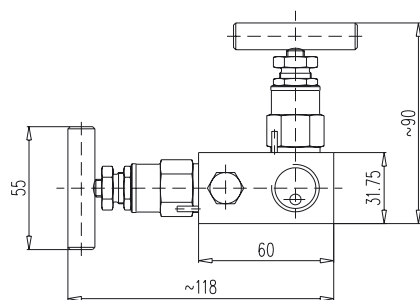


2-valve manifold

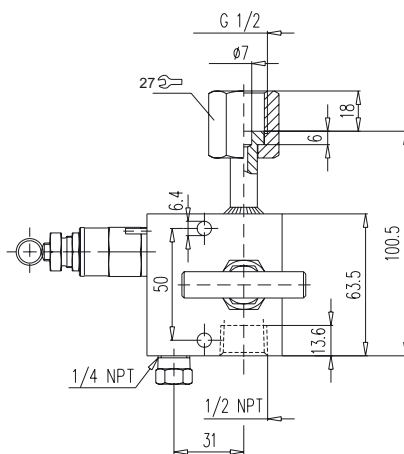
Key features

- Surface: phosphatized steel
- External stem thread
- Stem with cold-rolled surface, with back seat and crimped valve tip
- Special designs are available on request
- Manifolds can be supplied in accordance with the NACE specification

Dimensions



Sales number
 40/00561605



Sales number
 40/00550362

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**Technical data**

Nominal pressure	PN 420 1 PTFE packing 2 Pure graphite packing 1.0460 3 Pure graphite packing 1.4404	
Materials¹ Housing ² Bonnet Valve stem Valve tip ³ Packing up to 200°C up to 450°C up to 550°C Gland nut T-handle Screw plug	Stainless steel 1.4404 / 316L Stainless steel 1.4401 / 316 Stainless steel 1.4404 Stainless steel 1.4571 PTFE Pure graphite 1.0460 Pure graphite 1.4404 Stainless steel 1.4301 Stainless steel Stainless steel 1.4404	
Process connections Sales number: 40/00xxxxxx Input Output Sales number: 40/00550362 Input Output	1/2" NPT female 1/2" NPT female 1/2" NPT female G1/2 female, swivel nut	
Test and vent	1/4" NPT with screw plug	

¹ Also available in an oil and grease-free version for oxygen use (note ordering instruction B3).

² Available with inspection certificate as defined by EN 10204/3.1.

³ PTCFE or POM valve tips available on request.

Stock instruments

Delivery in 3 working days after receipt of order

Version	Sales number
2-valve manifold, input: 1/2 NPT, output: 1/2 NPT	40/00561605
2-valve manifold, input: 1/2 NPT, output: G1/2, rotating	40/00550362

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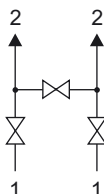
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3-valve manifold PN 400 DN 5 for direct mounting according to DIN 19213

Connection diagram



- 1 Process input
- 2 Measuring instrument output

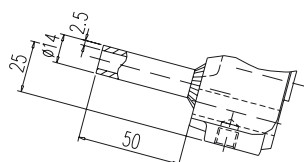
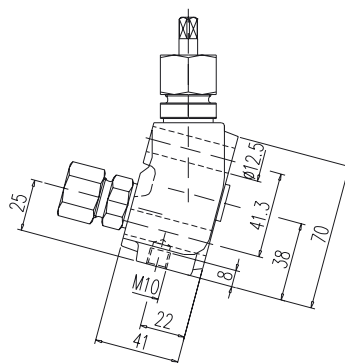
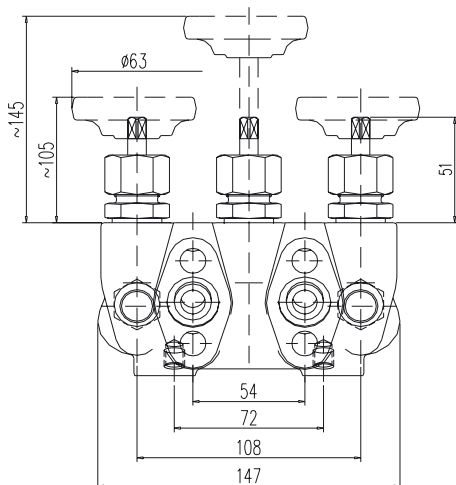


3-valve manifold

Key features

- Housing: die-pressed part
- Surface: phosphatized steel
- Internal stem threads
- Replaceable valve seat
- Stem with cold-rolled surface, with back seat and crimped valve tip
- Plastic handwheels
- Special designs are available on request

Dimensions



Input 14 x 2.5
 weld ends

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Technical data

Nominal pressure	PN 400 1 PTFE packing 2 Pure graphite packing	<table border="1"> <caption>Graph Data: Nominal Pressure vs Temperature</caption> <thead> <tr> <th>Temperature T [°C]</th> <th>Pressure P [bar] (PTFE)</th> <th>Pressure P [bar] (Pure Graphite)</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>400</td> <td>100</td> </tr> <tr> <td>200</td> <td>350</td> <td>80</td> </tr> <tr> <td>300</td> <td>270</td> <td>50</td> </tr> </tbody> </table>	Temperature T [°C]	Pressure P [bar] (PTFE)	Pressure P [bar] (Pure Graphite)	100	400	100	200	350	80	300	270	50
Temperature T [°C]	Pressure P [bar] (PTFE)	Pressure P [bar] (Pure Graphite)												
100	400	100												
200	350	80												
300	270	50												
Materials¹ Housing ² Bonnet Valve Valve stem Valve tip Packing up to 200°C up to 300°C Union nut Weld ends	Stainless steel 1.4571 Stainless steel 1.4571 Stainless steel 1.4571 Stainless steel 1.4571 Stainless steel 1.4571 PTFE Pure graphite Stainless steel 1.4571 Stainless steel 1.4571													
Process connections Input 12 S Input 14 x 2.5 Output IEC A	Tube fitting ø 12 mm, series S, G 3/8 Weld ends for tube ø 14 x 2.5 mm DIN 19213 Type B3													
Mounting set M10 7/16-20 UNF	4 M10 screws, 4 washers, 2 FPM sealing rings 4 7/16-20 UNF screws, 4 washers, 2 FPM sealing rings													

¹ Also available in an oil and grease-free version for oxygen use.

² Available with inspection certificate as defined by EN 10204/3.1.

Stock instruments

Delivery in 3 working days after receipt of order

Version	Sales number
3-valve manifold 12 S / IEC A, incl. M10 mounting set	40/00308191
3-valve manifold 12 S / IEC A, incl. 7/16-20 UNF mounting set	40/00552040
3-valve manifold 14 x 2.5 / IEC A, incl. M10 mounting set	40/00558635
3-valve manifold 14 x 2.5 / IEC A, incl. 7/16-20 UNF mounting set	40/00558636

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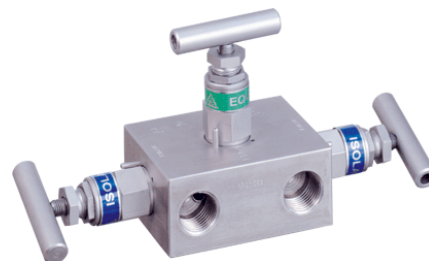
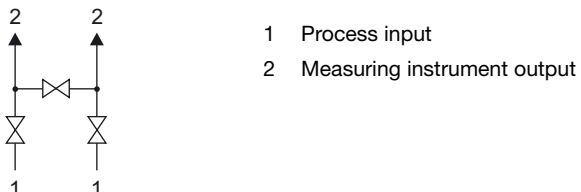
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3-valve manifold PN 420 DN 5 for remote mounting

Connection diagram

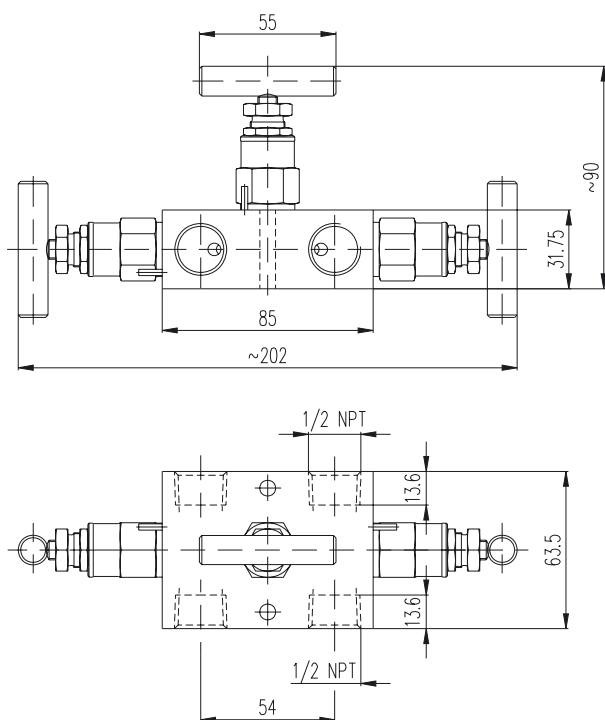


3-valve manifold

Key features

- Surface: phosphatized steel
- External stem thread
- Stem with cold-rolled surface, with back seat and crimped valve tip
- Special designs are available on request
- Manifolds can be supplied in accordance with the NACE specification

Dimensions



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Technical data

Nominal pressure	PN 420 1 PTFE packing 2 Pure graphite packing 1.0460 3 Pure graphite packing 1.4404	
Materials¹ Housing ² Bonnet Valve stem Valve tip ³ Packing up to 200°C up to 450°C up to 550°C Gland nut T-handle	Stainless steel 1.4404 / 316L Stainless steel 1.4401 / 316 Stainless steel 1.4404 Stainless steel 1.4571 PTFE Pure graphite 1.0460 Pure graphite 1.4404 Stainless steel 1.4301 Stainless steel	
Process connections Input Output	1/2" NPT female 1/2" NPT female	

- ¹ Also available in an oil and grease-free version for oxygen use (note ordering instruction B3).
² Available with inspection certificate as defined by EN 10204/3.1.
³ PTFE or POM valve tips available on request.

Stock instruments

Delivery in 3 working days after receipt of order

Version	Sales number
3-valve manifold 1/2 NPT / 1/2 NPT, without mounting set	40/00561608

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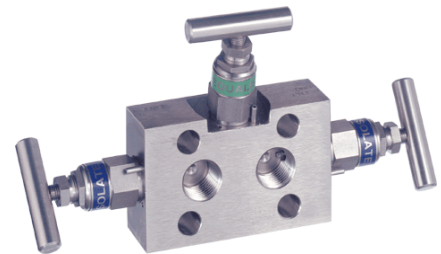
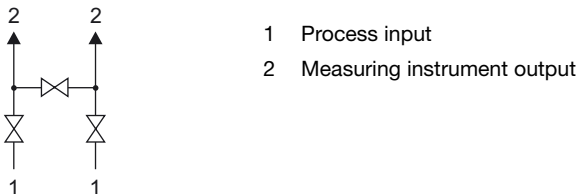
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3-valve manifold PN 420 DN 5 for direct connection according to EN IEC 61518

Connection diagram

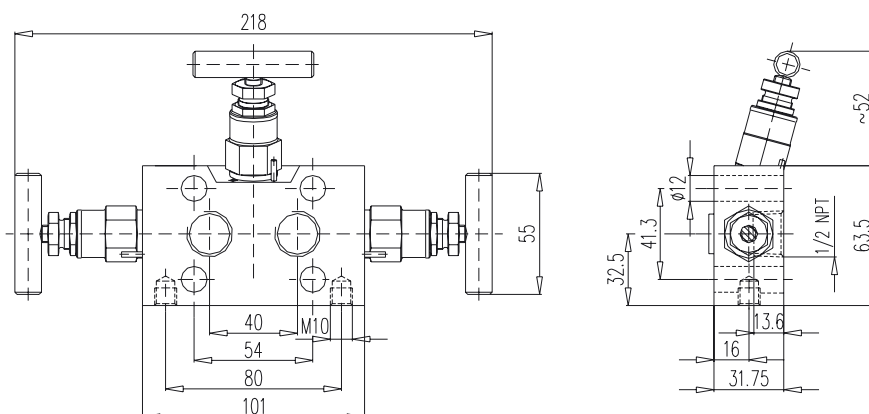


3-valve manifold

Key features

- Surface: phosphatized steel
- Internal stem thread
- Stem with cold-rolled surface, with back seat and crimped valve tip
- Special designs are available on request
- Manifolds can be supplied in accordance with the NACE specification

Dimensions



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Technical data

Nominal pressure	PN 420 1 PTFE packing 2 Pure graphite packing 1.0460 3 Pure graphite packing 1.4404	
Materials¹ Housing ² Bonnet Valve stem Valve tip ³ Packing up to 200°C up to 450°C up to 550°C Gland nut T-handle	Stainless steel 1.4404 / 316L Stainless steel 1.4401 / 316 Stainless steel 1.4404 Stainless steel 1.4571 PTFE Pure graphite 1.0460 Pure graphite 1.4404 Stainless steel 1.4301 Stainless steel	
Process connections Input Output	1/2" NPT female IEC, Type A	
Mounting set M10 7/16-20 UNF	4 M10 screws, 4 washers, 2 FPM sealing rings 4 7/16-20 UNF screws, 4 washers, 2 FPM sealing rings	

¹ Also available in an oil and grease-free version for oxygen use (note ordering instruction B3).

² Available with inspection certificate as defined by EN 10204/3.1.

³ PTFE or POM valve tips available on request.

Stock instruments

Delivery in 3 working days after receipt of order

Version	Sales number
3-valve manifold 1/2 NPT / IEC A, incl. M10 mounting set	40/00561619
3-valve manifold 1/2 NPT / IEC A, incl. 7/16-20 UNF mounting set	40/00561621

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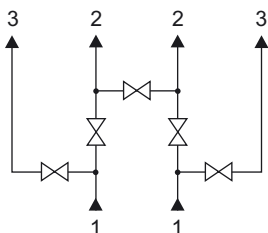
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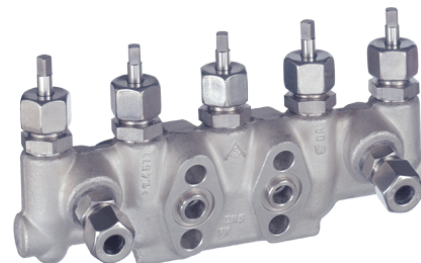


5-valve manifold PN 400 DN 5 for direct connection according to DIN 19213

Connection diagram



- 1 Process input
- 2 Measuring instrument output
- 3 Purge

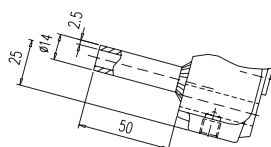
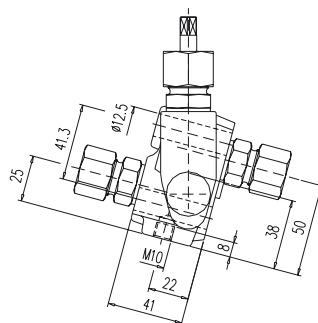
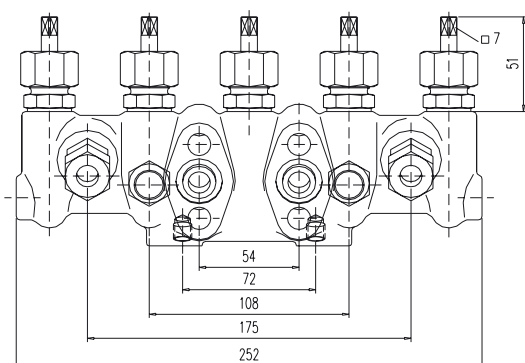


5-valve manifold

Key features

- Housing: die-pressed part
- Surface: phosphatized steel
- Internal stem thread
- Replaceable valve seat
- Stem with cold-rolled surface, with back seat and crimped valve tip
- Special designs are available on request
- Accessories: 1 socket wrench

Dimensions



Input 14 x 2.5
 weld ends

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**Technical data**

Nominal pressure	PN 400 1 PTFE packing 2 Pure graphite packing 1.0460 3 Pure graphite packing 1.4404	
Materials¹ Housing ² Bonnet Valve stem Valve tip Valve seat Packing up to 200°C up to 300°C Union nut	Stainless steel 1.4571 Stainless steel 1.4571 Stainless steel 1.4571 Stainless steel 1.4571 Stainless steel 1.4571 PTFE Pure graphite Stainless steel 1.4571	
Process connections Input / purge 12 S Output 14 x 2.5 Output IEC A	Tube fitting ø 12 mm, series S, G 3/8, DIN 19213 Type B3 Weld ends for tube ø 14x2.5 mm DIN 19213, Type B3	
Mounting set M10 7/16-20 UNF	4 M10 screws, 4 washers, 2 FPM sealing rings 4 7/16-20 UNF screws, 4 washers, 2 FPM sealing rings	

¹ Also available in an oil and grease-free version for oxygen use (note ordering instruction B3).

² Available with inspection certificate as defined by EN 10204/3.1.

³ PTFE or POM valve tips available on request.

Stock instruments

Delivery in 3 working days after receipt of order

Version	Sales number
5-valve manifold 12 S / IEC A, incl. M10 mounting set	40/00387943
5-valve manifold 12 S / IEC A, incl. 7/16-20 UNF mounting set	40/00387952
5-valve manifold 14 x 2.5 / IEC A, incl. M10 mounting set	40/00561611
5-valve manifold 14 x 2.5 / IEC A, incl. 7/16-20 UNF mounting set	40/00561613

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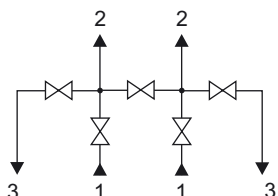
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5-valve manifold PN 420 DN 5

Connection diagram



- 1 Process input
- 2 Measuring instrument output
- 3 Test / vent



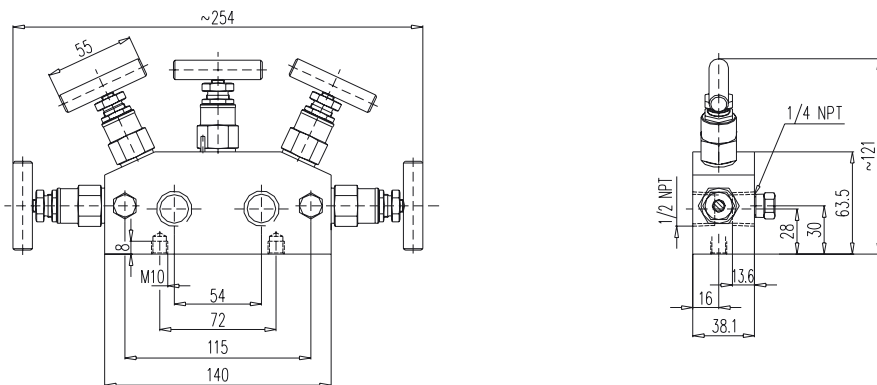
5-valve manifold

Key features

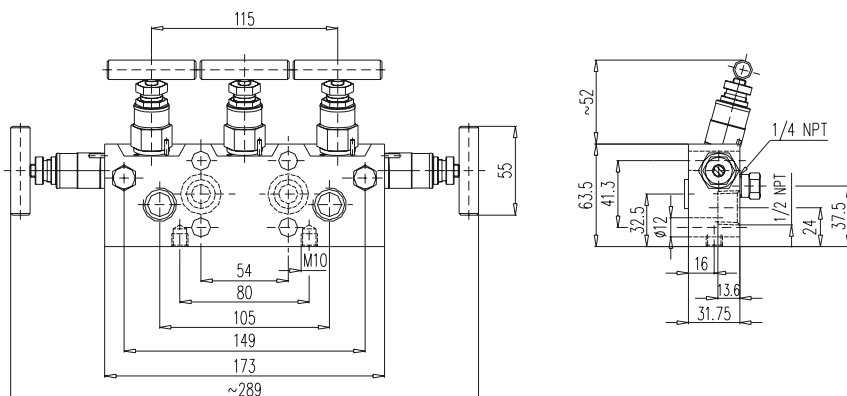
- Surface: phosphatized steel
- External stem thread
- Stem with cold-rolled surface, with back seat and crimped valve tip
- Special designs are available on request
- Manifolds can be supplied in accordance with the NACE specification

Dimensions

Version: for remote mounting



Version: for direct mounting



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Technical data

Nominal pressure	PN 420
Materials¹	
Housing ²	Stainless steel 1.4404 / 316L
Bonnet	Stainless steel 1.4401 / 316
Valve stem	Stainless steel 1.4404
Valve tip ³	Stainless steel 1.4571
Packing	
up to 200°C	PTFE
up to 450°C	Pure graphite 1.0460
up to 550°C	Pure graphite 1.4404
Gland nut	Stainless steel 1.4301
T-handle	Stainless steel
Screw plug	Stainless steel 1.4404
Process connections	
Input 1/2 NPT	1/2" NPT female
Output 1/2 NPT	1/2" NPT female
Output IEC, Type A	IEC Type A
Test and vent	1/4" NPT female with screw plug
Mounting set	
M10	4 M10 screws, 4 washers, 2 FPM sealing rings
7/16-20 UNF	4 7/16-20 UNF screws, 4 washers, 2 FPM sealing rings

¹ Also available in an oil and grease-free version for oxygen use.

² Available with inspection certificate as defined by EN 10204/3.1.

³ PTFE or POM valve tips available on request.

Stock instruments

Delivery in 3 working days after receipt of order

Version	Sales number
5-valve manifold 1/2 NPT / 1/2 NPT, without mounting set	40/00561614
5-valve manifold 1/2 NPT / IEC A, incl. M10 mounting set	40/00561616
5-valve manifold 1/2 NPT / IEC A, incl. 7/16-20 UNF mounting set	40/00561617