

01.08.2020

## Manifolds



**kalde**<sup>®</sup>

First Choice





## Why Kalde?

Kalde produces high quality products, designs and develops integrated solutions for customers worldwide.

It is among the leading companies in production of pipes and fittings with its knowledge and expertise of more than 40 years.

The headquarters of the company is located in Istanbul where the continents of Asia and Europe meet.

Our strategical location at the junction of Europe, Asia and Africa together with a reliable supply chain give us unique advantages in providing our business partners and customers with high quality service as well as the competition in the global markets. Currently, our products are exported to more than 40 countries worldwide including Germany, Hungary, Romania, Austria, Greece, Bulgaria, Russia, Ukraine, Egypt, Syria, Lebanon, etc.

Kalde has product design, development and quality control facilities in 300.000 m<sup>2</sup>.

Kalde produces a wide range of products including PP-R pipes, PP-R fittings, PP-R and brass valves, Al-pex & PE-RT pipes, screw fittings, press fittings, PE-X pipes and collectors. Kalde has internationally accredited certificates from respected organisations such as DVGW SKZ (Germany), CSTB (France) and AENOR (Spain). Furthermore, our management system has been certified by ISO. We are proud of our high quality products and experiences...

Our vision is providing our customers with an increasingly wide portfolio of high quality products and solutions with continuous research and development.

Our goal is to develop long term partnerships with our customers and suppliers.

We create integrated solutions by team work as well as collaboration with our customers and partners.

Having market-focused teams of around 1500 professionals supported by a strong management, we offer our business partners and customers worldwide with value-adding solutions.

As result of these reasons, **kalde** Kalde is the "First Choice" of the users worldwide

## Kalde Value Commitment.

Kalde was established by four young engineers dedicated to provide customers with the best service in 1977.

This spirit is still alive and is the essence of our mission statement.

## The Success of Kalde is the Result of Various Factors.

- **High quality** products.
- Utilization of best **practices**.
- Products meeting your **unique** requirements.
- **Proven** products.
- **Total** customer satisfaction.
- **Long term** relationships with each customer.
- A **dedicated** team of around 1500 professionals.

# ● Contents

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Normal Type Brass Manifolds

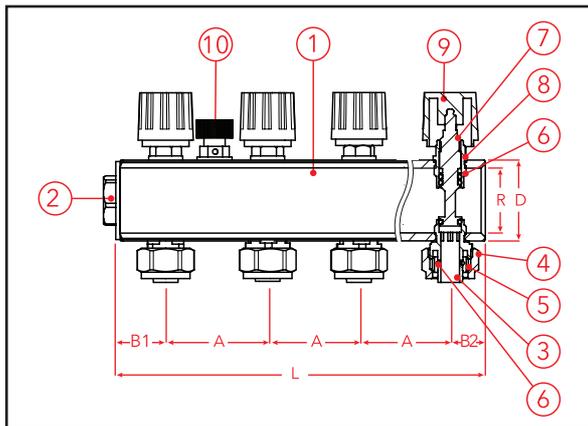
6

Light Type Brass Manifolds

7

# Manifolds

## Normal Type Brass Manifolds



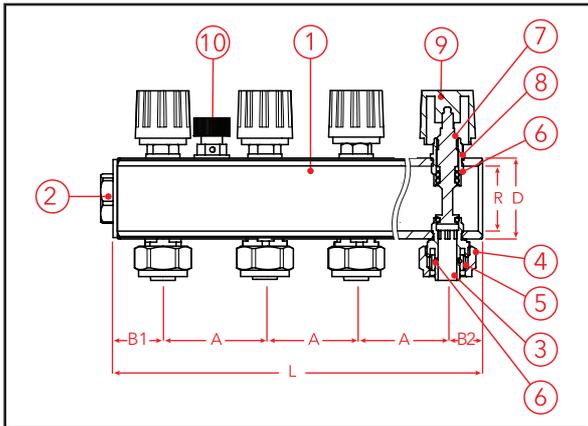
Part No	Name	Material
1	Body	CuZn39Pb3 Otomat
2	Male Plug End	CuZn40Pb2 Hot Pressed
3	Bottom Nipple	CuZn39Pb3 Otomat
4	Nut	CuZn40Pb2 Hot Pressed
5	Brass Ring	CuZn39Pb3 Otomat
6	O-Ring	EPDM
7	Shaft	CuZn39Pb3 Otomat
8	Top Nipple	CuZn39Pb3 Otomat
9	Wheel	Plastic (abs)
10	Airplug	CuZn39Pb3 Otomat

Nominal Pressure	PN 10		
Nominal Diameter	R"	1"	1 1/4"
Manifold Dimensions	A	43	43
	B1 + B2	86	86
	D	37	48
	L	[(Mouth pcs-1) x A] + B1 + B2	[(Mouth pcs-1) x A] + B1 + B2

Temperature	Pressure	Applications
°C	PN (Bar)	Water systems
0.....+95	10	Pressurized Air Systems

# Manifolds

## Light Type Brass Manifolds



Part No	Name	Material
1	Body	CuZn39Pb3 Otomat
2	Male Plug End	CuZn40Pb2 Hot Pressed
3	Bottom Nipple	CuZn39Pb3 Otomat
4	Nut	CuZn40Pb2 Hot Pressed
5	Brass Ring	CuZn39Pb3 Otomat
6	O-Ring	EPDM
7	Shaft	CuZn39Pb3 Otomat
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Temperature	Pressure	Applications
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0.....+95	10	Pressurized Air Systems

# Manifolds

## Self Valved Manifolds - Blue - Normal Type

Code	Size	A	L	Pcs.
3312-vpf-100216	1" 2 Ways	43	129	20
3312-vpf-100316	1" 3 Ways	43	172	15
3312-vpf-100416	1" 4 Ways	43	215	10
3312-vpf-100516	1" 5 Ways	43	258	10
3312-vpf-100616	1" 6 Ways	43	301	10
3312-vpf-100716	1" 7 Ways	43	344	5
3312-vpf-100816	1" 8 Ways	43	387	5
3312-vpf-100916	1" 9 Ways	43	430	5
3312-vpf-101016	1" 10 Ways	43	473	5
3312-vpf-101116	1" 11 Ways	43	516	5
3312-vpf-101216	1" 12 Ways	43	559	5
3312-vpf-101316	1" 13 Ways	43	602	5
3312-vpf-1a0216	1 1/4" 2 Ways	43	129	16
3312-vpf-1a0316	1 1/4" 3 Ways	43	172	12
3312-vpf-1a0416	1 1/4" 4 Ways	43	215	8
3312-vpf-1a0516	1 1/4" 5 Ways	43	258	8
3312-vpf-1a0616	1 1/4" 6 Ways	43	301	8
3312-vpf-1a0716	1 1/4" 7 Ways	43	344	4
3312-vpf-1a0816	1 1/4" 8 Ways	43	387	4
3312-vpf-1a0916	1 1/4" 9 Ways	43	430	4
3312-vpf-1a1016	1 1/4" 10 Ways	43	473	4
3312-vpf-1a1116	1 1/4" 11 Ways	43	516	4
3312-vpf-1a1216	1 1/4" 12 Ways	43	559	4
3312-vpf-1a1316	1 1/4" 13 Ways	43	602	4



# Manifolds

## Self Valved Manifolds - Red - Normal Type

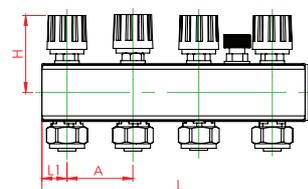
Code	Size	A	L	Pcs.
3313-vpf-100216	1" 2 Ways	43	129	20
3313-vpf-100316	1" 3 Ways	43	172	15
3313-vpf-100416	1" 4 Ways	43	215	10
3313-vpf-100516	1" 5 Ways	43	258	10
3313-vpf-100616	1" 6 Ways	43	301	10
3313-vpf-100716	1" 7 Ways	43	344	5
3313-vpf-100816	1" 8 Ways	43	387	5
3313-vpf-100916	1" 9 Ways	43	430	5
3313-vpf-101016	1" 10 Ways	43	473	5
3313-vpf-101116	1" 11 Ways	43	516	5
3313-vpf-101216	1" 12 Ways	43	559	5
3313-vpf-101316	1" 13 Ways	43	602	5
3313-vpf-1a0216	1 1/4" 2 Ways	43	129	16
3313-vpf-1a0316	1 1/4" 3 Ways	43	172	12
3313-vpf-1a0416	1 1/4" 4 Ways	43	215	8
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3313-vpf-1a0616	1 1/4" 6 Ways	43	301	8
3313-vpf-1a0716	1 1/4" 7 Ways	43	344	4
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3313-vpf-1a1016	1 1/4" 10 Ways	43	473	4
3313-vpf-1a1116	1 1/4" 11 Ways	43	516	4
3313-vpf-1a1216	1 1/4" 12 Ways	43	559	4
3313-vpf-1a1316	1 1/4" 13 Ways	43	602	4



# Manifolds

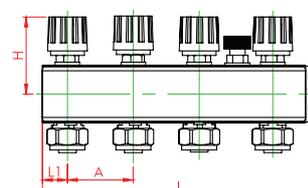
## Manifold - Blue - Light Type

Code	Size	A	L1	L	H	Pcs.
3312-vhf-100216	1" - 2 x Ø16	43	22,5	94	50,7	20
3312-vhf-100316	1" - 3 x Ø16	43	22,5	137	50,7	15
3312-vhf-100416	1" - 4 x Ø16	43	22,5	180	50,7	10
3312-vhf-100516	1" - 5 x Ø16	43	22,5	266	50,7	10
3312-vhf-100616	1" - 6 x Ø16	43	22,5	309	50,7	10
3312-vhf-100716	1" - 7 x Ø16	43	22,5	352	50,7	5
3312-vhf-100816	1" - 8 x Ø16	43	22,5	395	50,7	5
3312-vhf-100916	1" - 9 x Ø16	43	22,5	438	50,7	5
3312-vhf-101016	1" - 10 x Ø16	43	22,5	524	50,7	5
3312-vhf-101116	1" - 11 x Ø16	43	22,5	567	50,7	5
3312-vhf-101216	1" - 12 x Ø16	43	22,5	610	50,7	5
3312-vhf-101316	1" - 13 x Ø16	43	22,5	653	50,7	5



## Manifold - Red - Light Type

Code	Size	A	L1	L	H	Pcs.
3313-vhf-100216	1" - 2 x Ø16	43	22,5	94	50,7	20
3313-vhf-100316	1" - 3 x Ø16	43	22,5	137	50,7	15
3313-vhf-100416	1" - 4 x Ø16	43	22,5	180	50,7	10
3313-vhf-100516	1" - 5 x Ø16	43	22,5	266	50,7	10
3313-vhf-100616	1" - 6 x Ø16	43	22,5	309	50,7	10
3313-vhf-100716	1" - 7 x Ø16	43	22,5	352	50,7	5
3313-vhf-100816	1" - 8 x Ø16	43	22,5	395	50,7	5
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3313-vhf-101016	1" - 10 x Ø16	43	22,5	524	50,7	5
3313-vhf-101116	1" - 11 x Ø16	43	22,5	567	50,7	5
3313-vhf-101216	1" - 12 x Ø16	43	22,5	610	50,7	5
3313-vhf-101316	1" - 13 x Ø16	43	22,5	653	50,7	5



# Manifolds

## Mounting Ball Valve on the Manifold

- 1- You can change the location of the stopend on the manifold according to the direction of your existing installation. Set the "TSEK" logo and text on the manifold so that they always remain on the front, so that the purge's discharge hole is also on the front
- 2- Unscrew the movable fitting part (inside part and nut) of the ball valve, screw the fitting (using the back part of the key) to the manifold by hand.
- 3- By screwing the screwdriver into the hole on the key, screw the inside part into the manifold with the help of the screwdriver.

**Note:** Use teflon for sealing when fitting montage to the collector body, and do not overload to screw it. If linen is used as the sealing material; should not be over-wrapped, otherwise, the collector body and other metal (brass) parts may eventually become fatigued, cracking or breaking.

## Mounting Pipes to the Manifold

- 1- First of all cut the pipe perpendicular to its axis. Slip the pipe through movable nut and brass ring located in the manifold's lower nipple, straighten the pipe outlets through the guide to make sure the o-ring does not get out of its current channel when fitting the pipes into the hose nozzles.
- 2- When the connecting pipe is pushed to the fittings, it must be ensured that the position of the o-ring remains undisturbed under the pipe and it must be checked that the pipe ends up to the fittings.
- 3- Then push the nut and sleeve, which are mounted on the connection pipe, upwards and screwed them to the manifold lower nipple. After the assembly of the entire manifold set has finished, test the system with water. If there is no leakage in the connections, the manifold set is ready for use.

**Note:** The key used to connect the inside part and lower pipes is designed for the manifold set and will deform when forced more than necessary. **We do not recommend its use for other purposes.**

**Note:** Before installation, the products to be used must be visually checked, if there are cracks, broken etc. defects should be returned to our company for replacement without using the product.

**Note:** After the installation is finished, the products in the system should be tested for leakage. If there are leaking products should be returned to our company to be replaced with a new one.

**Note:** Products that have not been checked and tested before and after installation are excluded from the warranty. Any damages arising from this reason are the responsibility of the implementing company.



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