

MBK-40

MONOBLOCK VALVE FLOW LIQUIDS

GENERAL FEATURES

Damage to the sealing surfaces can occur for the following reasons:

- During closing time, due to solid particles are trapped between the ball and ring cause scrating on the surface of ball and/or seat.
- Corrosion in seat rings
- Deformation of the seat ring due to overheating.

When opening and closing the valve, apply force in the direction of the arrow indicated on the arm. Do not continue to apply force when the arm is compliant with the stopper pin. If the valve does not open and close with a suitable shut-off torque, do not force the valve using a jimmy or similar device to increase the shut-off torque. This can increase irreparable damage to the valve parts.

Attention:

Avoid physical intervention from the outside to the valve body without precautions for accidental closure.

Avoid sudden rapid on-offs to prevent the formation of water hammer in ball valves.

Important

Open and close the valve once a week with the aim of preventing the formation of lime and sediment layer which may form on the surface of the sphere when the valve should wait for a long time in closed position in the installation.

Advantages

- Lightweight - Monoblock Design
- Short Flange Distance
- Space-Saving
- Easy Installation
- Universal Application

Installation:

Can be install in every direction.

Application Areas:

- On cold-hot water pipelines
- Natural gas, LPG-LNG, Fuel-Oil Compressed Air
- Ship manufacturing sector
- Storage facilities

TECHNICAL SPECIFICATION

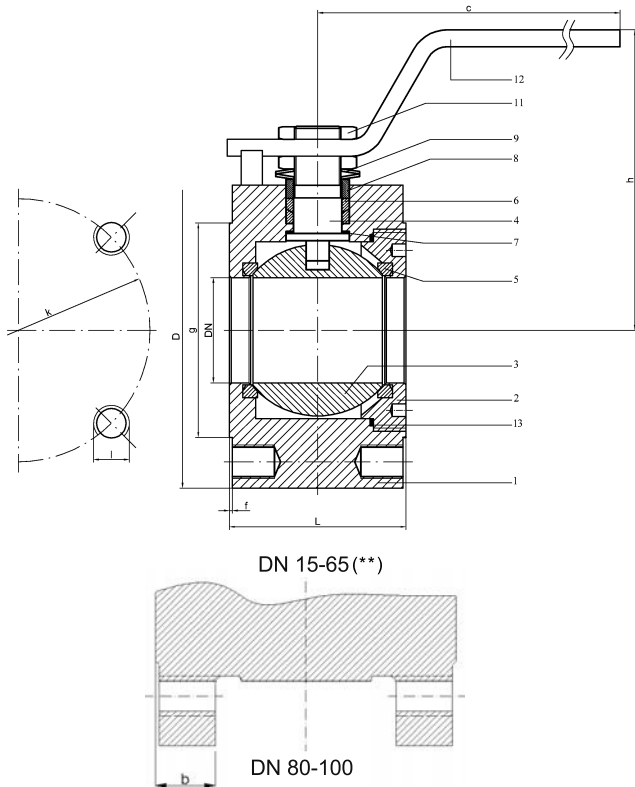
| | |
|-----------------|------------|
| Connection Type | Flanged |
| Gasket | EPDM |
| Temp. Range | -40/+110°C |
| Pressure Class | PN40 |

DIMENSIONS (mm)

| | | | | | |
|----------|----|----|----|-----|----|
| Dia.(DN) | 15 | 20 | 25 | 32 | 40 |
| | 50 | 65 | 80 | 100 | |

| Factor | RISK | SOLUTION |
|---------------------------|--|--|
| Maximum and minimum temp. | Exceeding the temperature limits | The end user should avoid exceeding the limit specified in the use and maintenance manual. |
| Corrosion | Leak as a result of corrosion on the sealing surfaces. Decrease in working life. | Avoid process fluids containing corrosive particle and wastes which cam damage the valve sealing. |
| Shock | Breaking | This should be avoided or prevented by the end user. Steamtraps must be installed where necessary to prevent the water hammer. |
| | Damage to pressurized parts due to water hammer. | |
| Thermal Shock | Different thermal expansion | This should be avoided or prevented by the end user. |

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| Parts | | Material | |
|-------|-----------------|----------------------------------|-------------|
| 1 | Body | Carbon Steel | AISI 316 SS |
| 2 | Cover | Carbon Steel | AISI 316 SS |
| 3 | Ball | 1.4301/1.4086 Stainless Steel | AISI 316 SS |
| 4 | Handle Stem | 1.4104 SS | AISI 316 SS |
| 5 | Seal Ring | PTFE | PTFE |
| 6 | Sealing Ring(*) | PTFE | PTFE |
| 7 | Friction Ring | PTFE | PTFE |
| 8 | Pressure Ring | St 37 | AISI 316 |
| 9 | Disc Spring | Ck 70 | AISI 316 |
| 10 | Stopper Pin | St 37 | AISI 316 |
| 11 | Nut | 5 | AISI 316 |
| 12 | Handle | St 42 | St 42 |
| 13 | Cover Ring(*) | PTFE | PTFE |

| Dia. | Valve Dimensions | | | | Flange Dimensions | | | | | | Weight PN 40 Kg |
|------|------------------|-----|-----|-----|-------------------|-----|-----|---|-----|---|-----------------------|
| | | | | | PN40 | | | | | | |
| DN | D | L | h | c | b | k | l | n | g | f | |
| 15 | 88 | 36 | 81 | 135 | - | 65 | M12 | 4 | 46 | 2 | 1,4 |
| 20 | 105 | 39 | 95 | 160 | - | 75 | M12 | 4 | 56 | 2 | 2,35 |
| 25 | 108 | 43 | 100 | 160 | - | 85 | M12 | 4 | 65 | 2 | 2,55 |
| 32 | 128 | 57 | 128 | 200 | - | 100 | M16 | 4 | 76 | 2 | 4,65 |
| 40 | 138 | 67 | 135 | 200 | - | 110 | M16 | 4 | 84 | 2 | 6,2 |
| 50 | 150 | 84 | 135 | 285 | - | 125 | M16 | 4 | 99 | 2 | 9,45 |
| 65 | 178 | 105 | 145 | 285 | - | 145 | M16 | 8 | 118 | 2 | 16,1 |
| 80 | 200 | 120 | 178 | 410 | 24 | 160 | M16 | 8 | 132 | 2 | 26,5 |
| 100 | 235 | 150 | 192 | 410 | 24 | 190 | M20 | 8 | 156 | 2 | 43,5 |