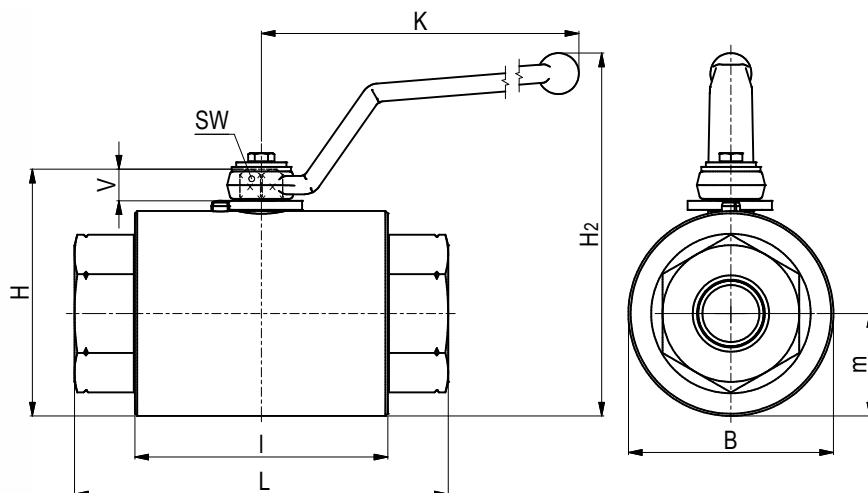


# Highest-pressure ball valve Stainless Steel

## MKHP800



### AVAILABLE SIZES

DN4 - DN25 (1/8" to 1")

### CONNECTIONS

DIN 2353/ISO 8434-1 Heavy series, ANSI B1.20.1 NPT Female thread, others on request

### ACCESSORIES ON REQUEST

- Locking devices page 230 - 233
- Actuators 228 - 229
- Position switches on request
- Combinations on request

### MATERIAL CODE DESCRIPTION

| Materials  | 44bA            | 44b8            |
|------------|-----------------|-----------------|
| Body       | Stainless Steel | Stainless Steel |
| Ball       | Stainless Steel | Stainless Steel |
| Stem       | Stainless Steel | Stainless Steel |
| Ball seats | POM             | POM             |
| O-rings    | NBR             | FPM             |
| Tmin /Tmax | -30°C / 100°C   | -20°C / 100°C   |

### GENERAL DIMENSIONS

| Type         | L   | B  | H   | m  | V  | SW | K   | H <sub>2</sub> | Lever |
|--------------|-----|----|-----|----|----|----|-----|----------------|-------|
| MKHP800-DN4  | 76  | 50 | 64  | 25 | 11 | 9  | 115 | 101            | St    |
| MKHP800-DN6  | 76  | 50 | 64  | 25 | 11 | 9  | 115 | 101            | St    |
| MKHP800-DN8  | 76  | 50 | 64  | 25 | 11 | 9  | 115 | 101            | St    |
| MKHP800-DN10 | 76  | 50 | 64  | 25 | 11 | 9  | 115 | 101            | St    |
| MKHP800-DN13 | 76  | 50 | 64  | 25 | 11 | 9  | 115 | 101            | St    |
| MKHP800-DN20 | 111 | 90 | 108 | 45 | 14 | 14 | 171 | 159            | St    |
| MKHP800-DN25 | 111 | 90 | 108 | 45 | 14 | 14 | 171 | 159            | St    |

# Highest-pressure ball valve Stainless Steel

## MKHP800



| CONNECTION TYPE                     | DIMENSIONS       |    |    |     |      |          |             | ORDER CODE PER MATERIAL COMBINATION |       |       |
|-------------------------------------|------------------|----|----|-----|------|----------|-------------|-------------------------------------|-------|-------|
| DIN 2353/ISO 8434-1<br>HEAVY SERIES | Type             | LW | RA | L   | i    | d        | Weight [Kg] | PN [bar]                            | 44bA  | 44b8  |
|                                     | MKHP800-DN4-8S   | 5  | 8  | 110 | 7    | M 16x1,5 | 1,23        | 800                                 | 59626 | 59627 |
|                                     | MKHP800-DN6-10S  | 6  | 10 | 114 | 7,5  | M 18x1,5 | 1,34        | 800                                 | 59628 | 59629 |
|                                     | MKHP800-DN8-12S  | 8  | 12 | 114 | 7,5  | M 20x1,5 | 1,35        | 800                                 | 59630 | 59631 |
|                                     | MKHP800-DN10-14S | 13 | 14 | 114 | 8    | M 22x1,5 | 1,28        | 800                                 | 59632 | 59633 |
|                                     | MKHP800-DN13-16S | 13 | 16 | 114 | 8,5  | M 24x1,5 | 1,27        | 800                                 | 59634 | 59636 |
|                                     | MKHP800-DN13-20S | 13 | 20 | 118 | 10,5 | M 30x2   | 1,30        | 800                                 | 59635 | 59637 |
|                                     | MKHP800-DN20-25S | 20 | 25 | 162 | 12   | M 36x2   | 5,80        | 800                                 | 59638 | 59639 |
|                                     | MKHP800-DN25-30S | 25 | 30 | 166 | 13,5 | M 42x2   | 5,80        | 800                                 | 59640 | 59641 |

| ANSI B1.20.1 NPT<br>FEMALE THREAD | Type                 | LW | L   | i    | d        | Weight [Kg] | PN [bar] | 44bA  | 44b8  |
|-----------------------------------|----------------------|----|-----|------|----------|-------------|----------|-------|-------|
|                                   | MKHP800-DN6-1/4"NPT  | 6  | 130 | 13,7 | 1/4" NPT | 1,71        | 800      | 42144 | 59643 |
|                                   | MKHP800-DN10-3/8"NPT | 13 | 130 | 13,5 | 3/8" NPT | 1,55        | 800      | 59644 | 59645 |
|                                   | MKHP800-DN13-1/2"NPT | 13 | 130 | 17   | 1/2" NPT | 1,48        | 800      | 42143 | 59647 |
|                                   | MKHP800-DN20-3/4"NPT | 20 | 161 | 18,3 | 3/4" NPT | 6,42        | 800      | 54714 | 59649 |
|                                   | MKHP800-DN25-1"NPT   | 25 | 164 | 21,6 | 1" NPT   | 6,40        | 800      | 28804 | 59650 |

Application-specific

Please note the pressure ratings of the tube connections!

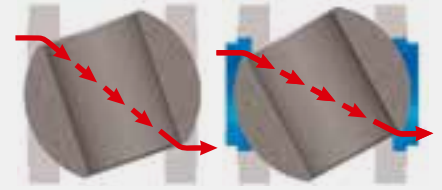


eroded ball seat

## Ball seat design for gas applications

During opening gas can cause significant damage to standard ball seats through increased flow rates.

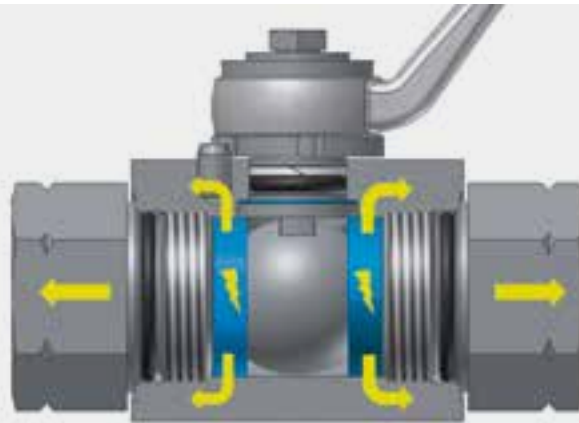
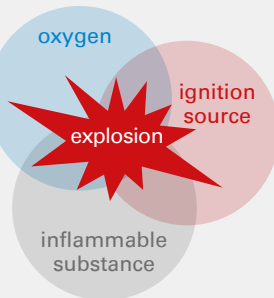
The **MHA ZENTGRAF** seat design with an inner metal ring protects the ball seat from erosion and increases the lifetime of the ball valve significantly.



standard seat design

**MHA ZENTGRAF** gas seat design

## ATEX ball valves



Explosions can cause loss of life and serious injuries as well as significant damage. The aim of the ATEX directive is both to apply a single level for health and safety requirements and to overcome trade barriers.

The main purpose of the ATEX directive is to minimize or completely eliminate the risk of ignition in explosive areas and to limit the harmful effects in case of an explosion. Explosive atmospheres (Ex areas) can be found where a mixture of air, flammable gases, vapors, mists or dusts are being produced, transformed or stored in the presence of oxygen. This may, for example, be the case in power plants, refineries, chemical facilities, paint facilities, air- and seaport storage tanks.

The new ATEX directive 2014/34/EU specifies some changes regarding ball valves classification.

According to that regulation ball valves are not allowed to be marked with the Ex-Symbol as they are not classified as "fast acting/shifting valves". Therefore they are said not to be affected by the ATEX directive.

Nevertheless **MHA ZENTGRAF** did a risk analysis in the past and found out that there is a risk of electrical current emerging inside the valve. Therefore **MHA ZENTGRAF** highly recommends special electrically discharging ball seats to be used for potentially explosive areas.