



PROVIDING QUALITY PRODUCTS SINCE 1995

## HIGH PRESSURE BALL VALVES

MULTIPLE CONFIGURATIONS



905-545-2038



716-283-8781

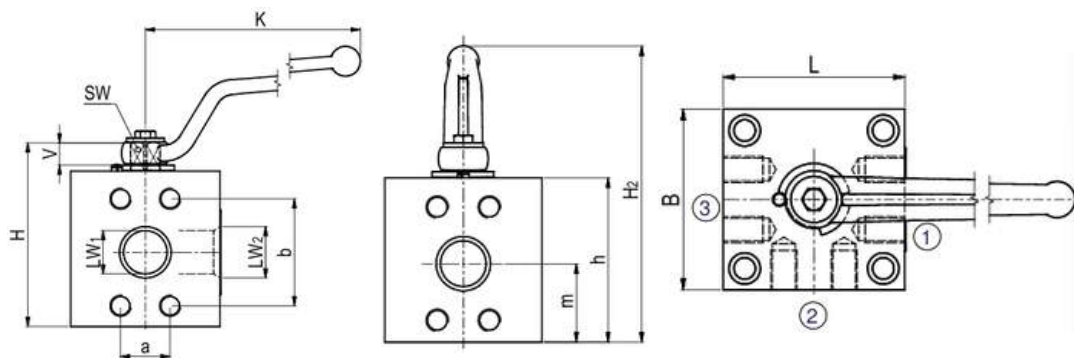
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## BK3K 3-WAY COMPACT BALL VALVE

### BALL VALVES



### AVAILABLE SIZES

DN13 - DN50 (1/2" to 2")



**Pressure application only with connected flanges.  
Pressure inlet only from center port (port 2)!**

### ACCESSORIES ON REQUEST

- Locking devices **on request**
- Actuator **on request**
- Mounting holes **on request**
- Positions switches **on request**
- Combinations **on request**
- Detent **on request**

### MATERIAL CODE DESCRIPTION

| Materials       | 112A          | 1128          |
|-----------------|---------------|---------------|
| Body            | Steel         | Steel         |
| Ball            | Steel         | Steel         |
| Stem            | Steel         | Steel         |
| Ball Seats      | POM           | POM           |
| O-Rings         | NBR           | FPM           |
| Tmin / Tmax     | -20°C / 100°C | -20°C / 100°C |
| Porting Pattern | L=SB50        | L=SB50        |

### CONNECTIONS

ISO 6162-2

### PORTING PATTERNS

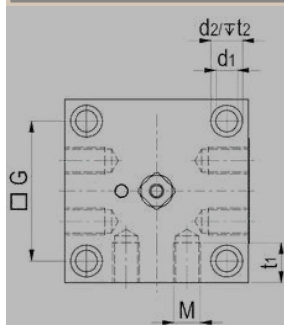


### GENERAL DIMENSIONS

| TYPE         | LW <sub>1</sub> | LW <sub>2</sub> | L   | B   | H   | h   | m    | V    | SW | K   | H <sub>2</sub> | Lever | Weight (Kg) |
|--------------|-----------------|-----------------|-----|-----|-----|-----|------|------|----|-----|----------------|-------|-------------|
| BK3K-DN13    | 13              | 13              | 70  | 70  | 70  | 56  | 28   | 11   | 9  | 115 | 108            | St    | 1,90        |
| BK3K-DN20    | 20              | 20              | 80  | 80  | 87  | 72  | 36   | 14   | 14 | 171 | 137            | St    | 3,20        |
| BK3K-DN25    | 25              | 25              | 94  | 94  | 96  | 81  | 42   | 14   | 14 | 171 | 147            | St    | 4,85        |
| BK3K-DN32    | 30              | 32              | 100 | 100 | 117 | 100 | 50,5 | 16,5 | 17 | 306 | 190            | St    | 6,80        |
| BK3K-DN32/40 | 30              | 38              | 110 | 110 | 136 | 115 | 55   | 16,5 | 17 | 306 | 209            | St    | 9,55        |
| BK3K-DN50    | 48              | 48              | 135 | 135 | 147 | 135 | 67,5 | 16,5 | 17 | 306 | 220            | St    | 15,50       |

### CONNECTION TYPE

ISO 6162-2



### DIMENSIONS

| TYPE                | a    | b    | M <sup>(1)</sup>   | t <sub>1</sub> | G   | d <sub>1</sub> | d <sub>2</sub> | t <sub>2</sub> |
|---------------------|------|------|--------------------|----------------|-----|----------------|----------------|----------------|
| BK3K-DN13-SAE420    | 18,2 | 40,5 | M8                 | 18             | 43  | 8,5            | 13,5           | 9              |
| BK3K-DN20-SAE420    | 23,8 | 50,8 | M10                | 20             | 60  | 10,5           | 16,5           | 11             |
| BK3K-DN25-SAE420    | 27,8 | 57,2 | M12                | 21             | 70  | 10,5           | 16,5           | 11             |
| BK3K-DN32-SAE420    | 31,8 | 66,7 | M14 <sup>(2)</sup> | 21             | 76  | 13             | 19             | 13             |
| BK3K-DN32-SAE420    | 31,8 | 66,7 | M12                | 22             | 76  | 13             | 19             | 13             |
| BK3K-DN32/40-SAE420 | 36,5 | 79,4 | M16                | 24             | 84  | 13             | 19             | 13             |
| BK3K-DN50-SAE420    | 44,5 | 96,8 | M20                | 28             | 108 | 13             | 19             | 13             |

<sup>(1)</sup> Please advise thread dimension with order. UNC threads on request.

<sup>(2)</sup> This thread is not to be used for new designs.

Please note the pressure ratings of the tube connections!

Due to material availability the material code of the steel valves may vary from 112A (or 1128).

DN40-50=812A (or 8128). Material suitability for the application does not differ from 112A (or 1128).

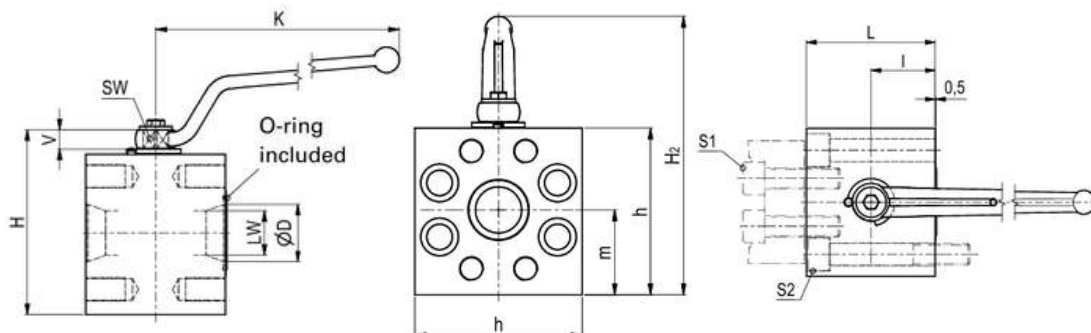
### ORDER CODE PER MATERIAL

| PN (bar) | 112A L=SB50 | 1128 L=SB50 |
|----------|-------------|-------------|
| 420      | 39013       | 39019       |
| 420      | 39014       | 39020       |
| 420      | 39015       | 39021       |
| 420      | 39016       | 39022       |
| 420      | 41913       | 41914       |
| 420      | 53792       | 53202       |
| 420      | 39018       | 39024       |

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## KHZ 2-WAY INTERMEDIATE BALL VALVE

### BALL VALVES



**Pressure application only with connected flanges.**

#### AVAILABLE SIZES

DN13 - DN50 (1/2" to 2")

#### CONNECTIONS

ISO 6162-1, ISO 6162-2

#### ACCESSORIES ON REQUEST

|                      |            |
|----------------------|------------|
| • Locking devices    | on request |
| • Actuator           | on request |
| • Mounting holes     | on request |
| • Positions switches | on request |
| • Combinations       | on request |
| • Detent             | on request |

#### MATERIAL CODE DESCRIPTION

| Materials   | 112A          | 1128          |  |
|-------------|---------------|---------------|--|
| Body        | Steel         | Steel         |  |
| Ball        | Steel         | Steel         |  |
| Stem        | Steel         | Steel         |  |
| Ball Seats  | POM           | POM           |  |
| O-Rings     | NBR           | FPM           |  |
| Tmin / Tmax | -10°C / 100°C | -10°C / 100°C |  |

#### GENERAL DIMENSIONS

| TYPE     | LW | D  | L   | I    | H     | h     | m    | K   | SW | V  | H <sub>2</sub> | Lever | Weight (Kg) |
|----------|----|----|-----|------|-------|-------|------|-----|----|----|----------------|-------|-------------|
| KHZ-DN13 | 13 | 13 | 68  | 34   | 72    | 58    | 30   | 115 | 9  | 11 | 109            | St    | 1,8         |
| KHZ-DN20 | 20 | 20 | 70  | 35   | 93    | 75    | 37,5 | 171 | 14 | 14 | 146            | St    | 2,8         |
| KHZ-DN25 | 25 | 25 | 78  | 39   | 103   | 84,5  | 44   | 171 | 14 | 14 | 155            | St    | 3,9         |
| KHZ-DN32 | 25 | 32 | 90  | 45   | 119   | 100   | 50   | 171 | 14 | 14 | 171            | St    | 6,5         |
| KHZ-DN40 | 32 | 38 | 99  | 49,5 | 141   | 120   | 60   | 306 | 17 | 17 | 214            | St    | 10,5        |
| KHZ-DN50 | 38 | 49 | 120 | 60   | 158,5 | 137,5 | 70   | 306 | 17 | 17 | 232            | St    | 16,5        |

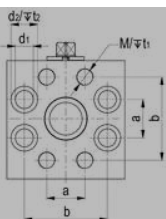
These intermediate ball valves have been designed with both bore patterns in accordance with ISO 6162-1 or ISO 6162-2. They can either be flanged on one side to a hydraulic block and connected on the other side with a hydraulic pipe, or they can be installed into a pipe system. Please note the pressure ratings of the connection flanges!

# KHZ 2-WAY INTERMEDIATE BALL VALVE

## BALL VALVES

### CONNECTION TYPE

ISO 6162-1



### DIMENSIONS

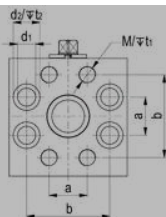
| TYPE            | a    | b    | M        | t <sub>1</sub> | d <sub>1</sub> | d <sub>2</sub> | t <sub>2</sub> | S1 <sup>(1)</sup><br>Dimension of screws (min) | S2 <sup>(1)</sup><br>Dimension of screws (min) | O-ring     |
|-----------------|------|------|----------|----------------|----------------|----------------|----------------|------------------------------------------------|------------------------------------------------|------------|
| KHZ-DN13-SAE210 | 18,2 | 40,5 | M8       | 15             | 8,5            | 13,5           | 9              | M8x30-10.9                                     | M8x70-10.9                                     | 18,64x3,53 |
| KHZ-DN20-SAE210 | 23,8 | 50,8 | M10      | 17             | 10,5           | 16,5           | 11             | M10x35-12.9                                    | M10x80-12.9                                    | 24,99x3,53 |
| KHZ-DN25-SAE210 | 27,8 | 57,2 | M12      | 21             | 13             | 19             | 13             | M12x45-10.9                                    | M12x80-10.9                                    | 32,92x3,53 |
| KHZ-DN32-SAE210 | 31,8 | 66,7 | M12      | 20             | 13             | 19             | 13             | M12x45-10.9                                    | M12x80-10.9                                    | 37,69x3,53 |
| KHZ-DN40-SAE210 | 36,5 | 79,4 | M16      | 27             | 17             | 25             | 17,5           | M16x55-10.9                                    | M16x100-10.9                                   | 47,22x3,53 |
| KHZ-DN50-SAE210 | 44,5 | 96,8 | M20      | 34             | 21             | 31             | 21,5           | M20x70-10.9                                    | M20x130-10.9                                   | 56,74x3,53 |
|                 |      |      |          |                |                |                |                |                                                |                                                |            |
| KHZ-DN13-SAE210 | 18,2 | 40,5 | 5/16"UNC | 15             | 8,5            | 13,5           | 9              | 5/16"UNCx30-10.9                               | 5/16"UNCx70-10.9                               | 18,64x3,53 |
| KHZ-DN20-SAE210 | 23,8 | 50,8 | 3/8"UNC  | 17             | 10,5           | 16,5           | 11             | 3/8"UNCx35-12.9                                | 3/8"UNCx80-12.9                                | 24,99x3,53 |
| KHZ-DN25-SAE210 | 27,8 | 57,2 | 7/16"UNC | 21             | 13             | 19             | 13             | 7/16"UNCx45-10.9                               | 7/16"UNCx80-10.9                               | 32,92x3,53 |
| KHZ-DN32-SAE210 | 31,8 | 66,7 | 1/2"UNC  | 20             | 13             | 19             | 13             | 1/2"UNCx45-10.9                                | 1/2"UNCx90-10.9                                | 37,69x3,53 |
| KHZ-DN40-SAE210 | 36,5 | 79,4 | 5/8"UNC  | 26             | 17             | 25             | 17,5           | 5/8"UNCx55-10.9                                | 5/8"UNCx100-10.9                               | 47,22x3,53 |
| KHZ-DN50-SAE210 | 44,5 | 96,8 | 3/4"UNC  | 34             | 21             | 31             | 21,5           | 3/4"UNCx70-10.9                                | 3/4"UNCx130-10.9                               | 56,74x3,53 |

### ORDER CODE PER MATERIAL

| PN<br>(bar) | 112A  | 1128  |
|-------------|-------|-------|
| 420         | 47116 | 47124 |
| 420         | 47117 | 41631 |
| 420         | 47118 | 47125 |
| 420         | 47119 | 47126 |
| 420         | 47120 | 47127 |
| 420         | 47121 | 47128 |
|             |       |       |
| 420         | 47131 | 47137 |
| 420         | 41643 | 41716 |
| 420         | 47145 | 47143 |
| 420         | 47132 | 47138 |
| 420         | 47133 | 47139 |
| 420         | 47134 | 47140 |

### CONNECTION TYPE

ISO 6162-2



### DIMENSIONS

| TYPE            | a    | b    | M        | t <sub>1</sub> | d <sub>1</sub> | d <sub>2</sub> | t <sub>2</sub> | S1 <sup>(1)</sup><br>Dimension of screws (min) | S2 <sup>(1)</sup><br>Dimension of screws (min) | O-ring     |
|-----------------|------|------|----------|----------------|----------------|----------------|----------------|------------------------------------------------|------------------------------------------------|------------|
| KHZ-DN13-SAE420 | 18,2 | 40,5 | M8       | 15             | 8,5            | 13,5           | 9              | M8x30-10.9                                     | M8x70-10.9                                     | 18,64x3,53 |
| KHZ-DN20-SAE420 | 23,8 | 50,8 | M10      | 17             | 10,5           | 16,5           | 11             | M10x35-12.9                                    | M10x80-12.9                                    | 24,99x3,53 |
| KHZ-DN25-SAE420 | 27,8 | 57,2 | M12      | 21             | 13             | 19             | 13             | M12x45-10.9                                    | M12x80-10.9                                    | 32,92x3,53 |
| KHZ-DN32-SAE420 | 31,8 | 66,7 | M12      | 20             | 13             | 19             | 13             | M12x45-10.9                                    | M12x80-10.9                                    | 37,69x3,53 |
| KHZ-DN40-SAE420 | 36,5 | 79,4 | M16      | 27             | 17             | 25             | 17,5           | M16x55-10.9                                    | M16x100-10.9                                   | 47,22x3,53 |
| KHZ-DN50-SAE420 | 44,5 | 96,8 | M20      | 34             | 21             | 31             | 21,5           | M20x70-10.9                                    | M20x130-10.9                                   | 56,74x3,53 |
|                 |      |      |          |                |                |                |                |                                                |                                                |            |
| KHZ-DN13-SAE420 | 18,2 | 40,5 | 5/16"UNC | 15             | 8,5            | 13,5           | 9              | 5/16"UNCx30-10.9                               | 5/16"UNCx70-10.9                               | 18,64x3,53 |
| KHZ-DN20-SAE420 | 23,8 | 50,8 | 3/8"UNC  | 17             | 10,5           | 16,5           | 11             | 3/8"UNCx35-12.9                                | 3/8"UNCx80-12.9                                | 24,99x3,53 |
| KHZ-DN25-SAE420 | 27,8 | 57,2 | 7/16"UNC | 21             | 13             | 19             | 13             | 7/16"UNCx45-10.9                               | 7/16"UNCx80-10.9                               | 32,92x3,53 |
| KHZ-DN32-SAE420 | 31,8 | 66,7 | 1/2"UNC  | 20             | 13             | 19             | 13             | 1/2"UNCx45-10.9                                | 1/2"UNCx90-10.9                                | 37,69x3,53 |
| KHZ-DN40-SAE420 | 36,5 | 79,4 | 5/8"UNC  | 26             | 17             | 25             | 17,5           | 5/8"UNCx55-10.9                                | 5/8"UNCx100-10.9                               | 47,22x3,53 |
| KHZ-DN50-SAE420 | 44,5 | 96,8 | 3/4"UNC  | 34             | 21             | 31             | 21,5           | 3/4"UNCx70-10.9                                | 3/4"UNCx130-10.9                               | 56,74x3,53 |

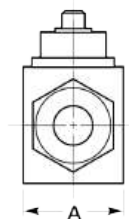
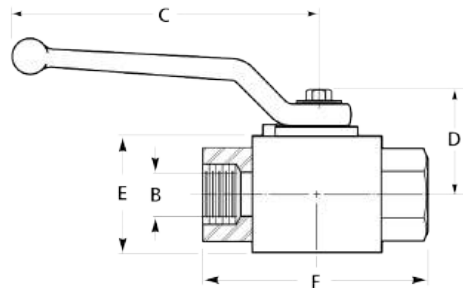
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|             |       |       |
| 420         | 47131 | 47137 |
| 420         | 41643 | 41716 |
| 420         | 47145 | 47143 |
| 420         | 47132 | 47138 |
| 420         | 47133 | 47139 |
| 420         | 47134 | 47140 |

<sup>(1)</sup> Screws and flanges not included

## SKH TWO-WAY HIGH PRESSURE BALL VALVES NICKLE

## BALL VALVES



### SPECIFICATIONS

- Block body
- Full port, sizes ¼ - 1"
- Reduced port, sizes 1¼ - 1½"
- NPT – ORB – BSP connections
- POM (Polyacetal) ball seats
- Buna-N O-Rings
- Temp range -20°F to 215°F
- Nickel plated ball
- Zinc clear coating (RoHs compliant)

### OPTIONS

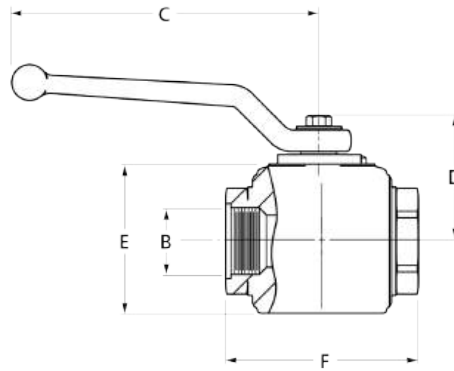
- Lock kits
- Actuator packages
- Straight handles
- Red Aluminum handles
- Mounting holes
- Special ball seats and seals for higher temperature and aggressive applications

### BKH SERIES

| SIZE  | THREAD SIZE   | PART #             | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|-------|---------------|--------------------|------------------|-----|------------------|------|------|------|------|------|
|       |               |                    | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| ¼"    | ¼" NPTF       | BKH-14-NPT-1123-2  | 7350             | 500 | 1.02             | 0.24 | 4.21 | 1.20 | 1.26 | 2.72 |
| ¼"    | 7/16"-20 ORB  | BKH-14-SAE-1123-2  | 7350             | 500 | 1.02             | 0.24 | 4.21 | 1.20 | 1.26 | 2.72 |
| ⅜"    | ⅜" NPTF       | BKH-38-NPT-1123-2  | 7350             | 500 | 1.26             | 0.39 | 4.21 | 1.29 | 1.50 | 2.87 |
| ⅜"    | 9/16"-18 ORB  | BKH-38-SAE-1123-2  | 7350             | 500 | 1.26             | 0.39 | 4.21 | 1.29 | 1.50 | 2.87 |
| ½"    | ½" NPTF       | BKH-12-NPT-1123-2  | 7350             | 500 | 1.38             | 0.51 | 4.21 | 1.31 | 1.57 | 3.62 |
| ½"    | ¾"-16 ORB     | BKH-12-SAE-1123-2  | 7350             | 500 | 1.38             | 0.51 | 4.21 | 1.31 | 1.57 | 3.62 |
| ¾"    | ¾" NPTF       | BKH-34-NPT-1123-2  | 6000             | 415 | 1.93             | 0.78 | 6.50 | 1.91 | 2.24 | 3.82 |
| ¾"    | 1½/16"-12 ORB | BKH-34-SAE-1123-2  | 6000             | 415 | 1.93             | 0.78 | 6.50 | 1.91 | 2.24 | 3.82 |
| 1"    | 1" NPTF       | BKH-1-NPT-1123-2   | 6000             | 415 | 2.36             | 0.94 | 6.50 | 1.95 | 2.36 | 4.45 |
| 1"    | 1½/16"-12 ORB | BKH-1-SAE-1123-2   | 6000             | 415 | 2.36             | 0.94 | 6.50 | 1.95 | 2.36 | 4.45 |
| 1x1¼" | 1½/8"-12 ORB  | BKH-114-SAE-1123-2 | 6000             | 415 | 2.36             | 0.94 | 6.50 | 1.95 | 2.36 | 5.16 |

## SKH TWO-WAY HIGH PRESSURE BALL VALVES NICKEL PLATED

### BALL VALVES



### SPECIFICATIONS

- Forged body
- Full port
- NPT – ORB – BSP connections
- POM (Polyacetal) ball seats
- Buna-N O-Rings
- Temp range -20°F to 215°F
- Nickel plated ball
- Zinc clear coating (RoHs compliant)

### OPTIONS

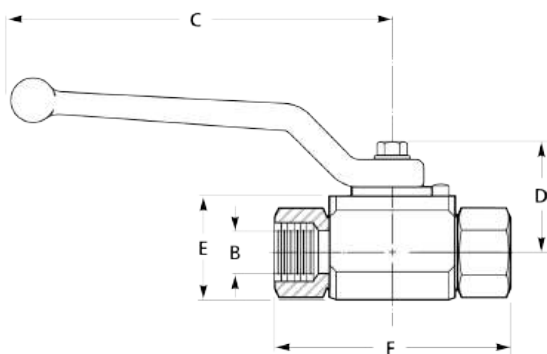
- Lock kits
- Actuator packages
- Straight handles
- Red Aluminum handles
- Special ball seats and seals for higher temperature and aggressive applications

### SKH SERIES

| SIZE | THREAD SIZE | PART #             | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|------|-------------|--------------------|------------------|-----|------------------|------|------|------|------|------|
|      |             |                    | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| 1¼"  | 1¼" NPTF    | SKH-114-NPT-3123-2 | 6000             | 415 | 2.99             | 1.26 | 8.30 | 2.60 | 3.30 | 4.50 |
| 1¼"  | 1½"-12 ORB  | SKH-114-SAE-3123-2 | 6000             | 415 | 2.99             | 1.26 | 8.30 | 2.60 | 3.30 | 4.50 |
| 1½"  | 1½" NPTF    | SKH-112-NPT-3123-2 | 6000             | 415 | 3.27             | 1.50 | 8.30 | 2.73 | 3.62 | 5.30 |
| 1½"  | 1½"-12 ORB  | SKH-112-SAE-3123-2 | 6000             | 415 | 3.27             | 1.50 | 8.30 | 2.73 | 3.62 | 5.30 |
| 2"   | 2" NPTF     | SKH-2-NPT-3123-2   | 6000             | 415 | 3.94             | 1.89 | 8.50 | 3.15 | 4.37 | 5.50 |
| 2"   | 2½"-12 ORB  | SKH-2-SAE-3123-2   | 6000             | 415 | 3.94             | 1.89 | 8.50 | 3.15 | 4.37 | 5.50 |

## RKH SERIES 316 STAINLESS STEEL BALL VALVES

### BALL VALVES



### SPECIFICATIONS

- All 316 Stainless steel body, stem & ball
- FKM/FPM O-Rings
- Full port
- Temp range -20°F to 215°F
- NPT – ORB connections
- POM (Polyacetal) ball seats

### OPTIONS

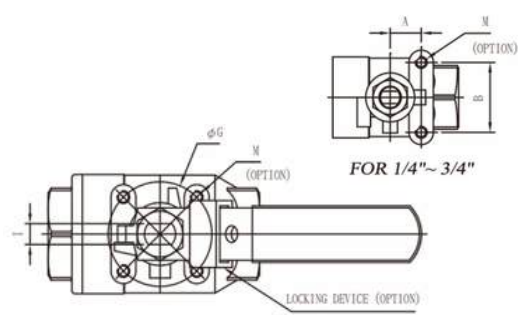
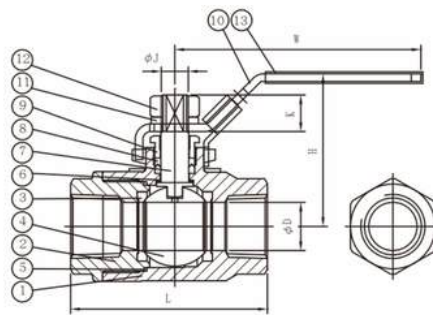
- Lock kits
- Stainless handles
- Red Aluminum handles
- Special ball seats and seals for higher temperature and aggressive applications

### RKH SERIES

| SIZE   | THREAD SIZE    | PART #           | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|--------|----------------|------------------|------------------|-----|------------------|------|------|------|------|------|
|        |                |                  | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| 1/4"   | 1/4" NPTF      | RKH-14-NPT-4425  | 6000             | 415 | 1.49             | 0.24 | 4.21 | 1.20 | 1.38 | 2.95 |
| 1/4"   | 7/16"-20 ORB   | RKH-14-SAE-4425  | 6000             | 415 | 1.49             | 0.24 | 4.21 | 1.20 | 1.38 | 2.95 |
| 3/8"   | 3/8" NPTF      | RKH-38-NPT-4425  | 6000             | 415 | 1.77             | 0.39 | 4.21 | 1.29 | 1.57 | 2.95 |
| 3/8"   | 9/16"-18 ORB   | RKH-38-SAE-4425  | 6000             | 415 | 1.77             | 0.39 | 4.21 | 1.29 | 1.57 | 2.95 |
| 1/2"   | 1/2" NPTF      | RKH-12-NPT-4425  | 6000             | 415 | 1.89             | 0.51 | 4.21 | 1.31 | 1.77 | 3.35 |
| 1/2"   | 3/4"-16 ORB    | RKH-12-SAE-4425  | 6000             | 415 | 1.89             | 0.51 | 4.21 | 1.31 | 1.77 | 3.35 |
| 3/4"   | 3/4" NPTF      | RKH-34-NPT-4425  | 6000             | 415 | 2.56             | 0.79 | 6.50 | 1.91 | 2.36 | 3.66 |
| 3/4"   | 1 1/16"-12 ORB | RKH-34-SAE-4425  | 6000             | 415 | 2.56             | 0.79 | 6.50 | 1.91 | 2.36 | 3.66 |
| 1"     | 1" NPTF        | RKH-1-NPT-4425   | 6000             | 415 | 2.76             | 0.94 | 6.50 | 1.95 | 2.56 | 4.53 |
| 1"     | 1 5/16"-12 ORB | RKH-1-SAE-4425   | 6000             | 415 | 2.76             | 0.94 | 6.50 | 1.95 | 2.56 | 4.53 |
| 1 1/4" | 1 1/4" NPTF    | RKH-114-NPT-4425 | 5880             | 400 | 3.54             | 1.25 | 8.30 | 2.59 | 3.30 | 6.54 |
| 1 1/4" | 1 5/8"-12 ORB  | RKH-114-SAE-4425 | 5880             | 400 | 3.54             | 1.25 | 8.30 | 2.59 | 3.30 | 6.54 |
| 1 1/2" | 1 1/2" NPTF    | RKH-112-NPT-4425 | 5880             | 400 | 3.26             | 1.49 | 8.30 | 2.73 | 3.62 | 7.14 |
| 1 1/2" | 1 7/8"-12 ORB  | RKH-112-SAE-4425 | 5880             | 400 | 3.26             | 1.49 | 8.30 | 2.73 | 3.62 | 7.14 |
| 2"     | 2" NPTF        | RKH-2-NPT-4425   | 5880             | 400 | 3.94             | 1.89 | 8.50 | 3.15 | 4.37 | 9.30 |
| 2"     | 2 1/2"-12 ORB  | RKH-2-SAE-4425   | 5880             | 400 | 3.94             | 1.89 | 8.50 | 3.15 | 4.37 | 9.30 |

## 3000 PSI STAINLESS 2-WAY BALL VALVE

## BALL VALVES



THREADED ENDS 3000 W.O.G 1/4" TO 1 1/2" & 3": FULL PORT; 2": STANDARD PORT

### Features:

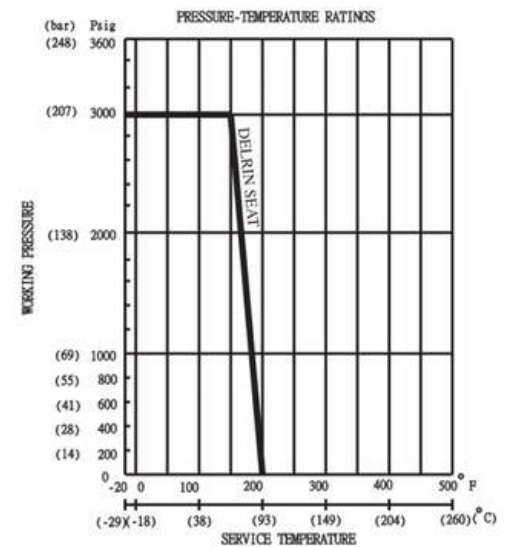
- Strengthened construction secures 3000 psi working pressure rating
- Enlarged bottom-loaded blow-out proof stem
- Gasket is placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media
- Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling
- Basic design complied with ANSI B16.34 & EN 12516-1
- NPT threaded ends complied with ANSI B 1.20.1.
- Re, Rp & G Threaded ends complied with BS 21/2779, ns B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request
- Tested according to API 598.

### Options:

- L: Locking Device
- M: Tapped Mounting Pad
- F: Fire-Safe Design
- W: Body Joint Fully Welded
- O: Viton O-Ring On Stem
- A: Anti-Static Device

### MATERIALS LIST

| NO. | PARTS         | STAINLESS          |
|-----|---------------|--------------------|
| 1   | Body          | ASTM A351-CF8M/316 |
| 2   | End Cap       | ASTM A351-CF8M/316 |
| 3   | Seat          | DELIN              |
| 4   | Ball          | ASTM A351-CF8M/316 |
| 5   | Gasket        | PTFE               |
| 6   | Thrust Washer | PTFE               |
| 7   | Stem          | ASTM A216-316      |
| 8   | Stem Packing  | PTFE               |
| 9   | Gland         | AISI 304           |
| 10  | Handle        | AISI 304           |
| 11  | Handle Washer | AISI 304           |
| 12  | Handle Nut    | AISI 304           |
| 13  | Handle Cover  | PVC                |

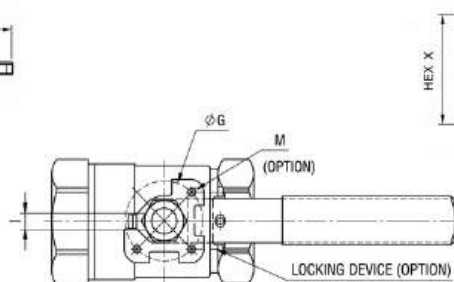
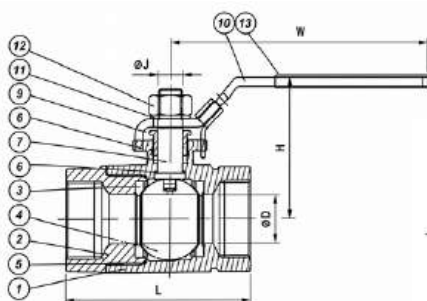


### DIMENSIONS

| PART #              | SIZE  |    | Ø D  |       | L    |     | H    |        | W     |     | I    |    | Ø J  |    | K    |       | Ø G  |     | A    |       | B    |       | Weight |      | M         |
|---------------------|-------|----|------|-------|------|-----|------|--------|-------|-----|------|----|------|----|------|-------|------|-----|------|-------|------|-------|--------|------|-----------|
|                     | in    | DN | in   | mm    | in   | mm  | in   | mm     | in    | mm  | in   | mm | in   | mm | in   | mm    | in   | mm  | in   | mm    | in   | mm    | lbs    | kgs  |           |
| BKH-14-NPT-3000-SS  | 1/4   | 8  | 0.37 | 9.50  | 2.52 | 64  | 2.13 | 54.00  | 3.70  | 94  | 0.20 | 5  | 0.31 | 8  | 0.37 | 9.50  | -    | -   | 0.50 | 12.70 | 1.12 | 28.50 | 0.83   | 0.38 | 10-24 UNC |
| BKH-38-NPT-3000-SS  | 3/8   | 10 | 0.37 | 9.50  | 2.52 | 64  | 2.13 | 54.00  | 3.70  | 94  | 0.20 | 5  | 0.31 | 8  | 0.37 | 9.50  | -    | -   | 0.50 | 12.70 | 1.12 | 28.50 | 0.87   | 0.40 | 10-24 UNC |
| BKH-12-NPT-3000-SS  | 1/2   | 15 | 0.49 | 12.50 | 2.83 | 72  | 2.13 | 54.00  | 4.37  | 111 | 0.20 | 5  | 0.31 | 8  | 0.37 | 9.50  | -    | -   | 0.50 | 12.70 | 1.12 | 28.50 | 0.97   | 0.44 | 10-24 UNC |
| BKH-34-NPT-3000-SS  | 3/4   | 20 | 0.79 | 20.00 | 3.50 | 89  | 2.50 | 63.50  | 4.37  | 111 | 0.28 | 7  | 0.39 | 10 | 0.55 | 14.00 | -    | -   | 0.87 | 22.10 | 1.38 | 35.00 | 2.38   | 1.08 | 10-24 UNC |
| BKH-1-NPT-3000-SS   | 1     | 25 | 0.98 | 25.00 | 4.02 | 102 | 3.11 | 79.00  | 6.57  | 167 | 0.39 | 10 | 0.55 | 14 | 0.75 | 19.00 | 1.97 | 50  | -    | -     | -    | -     | 3.51   | 1.59 | M6-P1     |
| SKH-114-NPT-3000-SS | 1 1/4 | 32 | 1.26 | 32.00 | 4.57 | 116 | 3.31 | 84.00  | 6.57  | 167 | 0.39 | 10 | 0.55 | 14 | 0.79 | 20.00 | 1.97 | 50  | -    | -     | -    | -     | 5.11   | 2.32 | M6-P1     |
| SKH-112-NPT-3000-SS | 1 1/2 | 40 | 1.50 | 38.00 | 4.88 | 124 | 4.29 | 109.00 | 8.66  | 220 | 0.47 | 12 | 0.75 | 19 | 1.14 | 29.00 | 2.76 | 70  | -    | -     | -    | -     | 8.49   | 3.85 | M8-P1.25  |
| SKH-2-NPT-3000-SS   | 2     | 50 | 1.50 | 38.00 | 5.51 | 140 | 4.29 | 109.00 | 8.66  | 220 | 0.47 | 12 | 0.75 | 19 | 1.14 | 29.00 | 2.76 | 70  | -    | -     | -    | -     | 9.59   | 4.35 | M8-P1.25  |
| SKH-3-NPT-3000-SS   | 3     | 80 | 3.15 | 80.00 | 8.07 | 205 | 5.94 | 151.00 | 14.57 | 370 | 0.63 | 16 | 0.98 | 25 | 1.34 | 34.00 | 4.02 | 102 | -    | -     | -    | -     | -      | -    | M10-P1.5  |

## 6000 PSI STAINLESS 2-WAY BALL VALVE

### BALL VALVES



**THREADED ENDS 6000 W.O.G 1/4" TO 1 1/2": FULL PORT, 2": STANDARD PORT,  
NACE MR-01-75 ISO 5211 MOUNTING PAD, LEVER HANDLE**

#### Features:

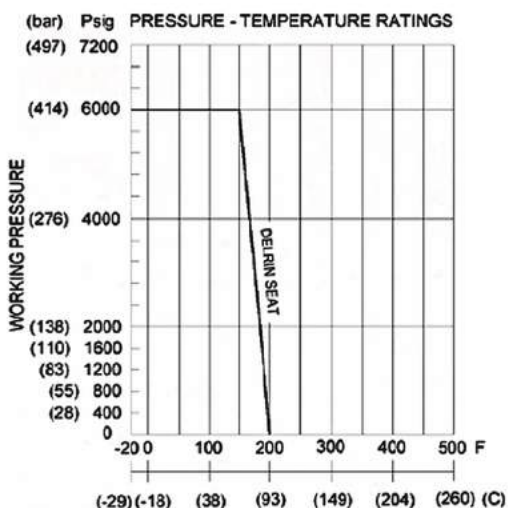
- Strengthened construction secures 6000 psi working pressure rating
- Enlarged bottom-loaded blow-out proof stem
- Gasket is placed ahead of the body cap threads, providing a tight seal and protection of threads from flow media
- Vented ball equalizes pressure between the body cavity and the flow stream to prevent seat damage due to thermal cycling
- Basic design complied with ANSI B16.34 & EN 12516-1
- NPT threaded ends complied with ANSI B 1.20.1.
- Re, Rp & G Threaded ends complied with BS 21/2779, JIS B-0203/0202, DIN 259/2999, ISO 228-1, AS1722.1/1722.2 are upon request
- Tested according to API 598.

#### Options:

- L: Locking Device
- F: Fire-Safe Design
- W: Body Joint Fully Welded
- O: Viton O-Ring On Stem
- A: Anti-Static Device

#### MATERIALS LIST

| NO. | PARTS         | STAINLESS          |
|-----|---------------|--------------------|
| 1   | Body          | ASTM A351-CF8M/316 |
| 2   | End Cap       | ASTM A351-CF8M/316 |
| 3   | Seat          | DELTRIN            |
| 4   | Ball          | ASTM A351-CF8M/316 |
| 5   | Gasket        | PTFE               |
| 6   | Thrust Washer | PTFE               |
| 7   | Stem          | ASTM A276-316      |
| 8   | Stem Packing  | PTFE               |
| 9   | Gland         | AISI 304           |
| 10  | Handle        | AISI 304           |
| 11  | Handle Washer | AISI 304           |
| 12  | Handle Nut    | AISI 304           |
| 13  | Handle Cover  | PVC                |

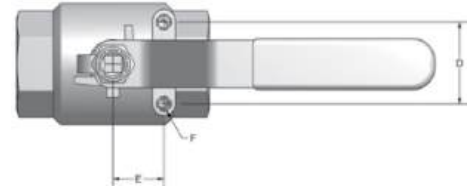
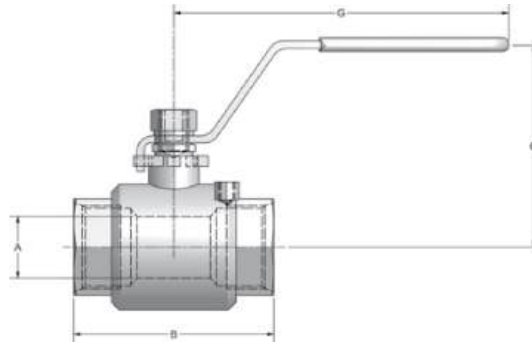


#### DIMENSIONS

| PART #              | SIZE  |    | Ø D  |       | L    |     | H    |        | W    |     | I    |    | Ø J  |    | K    |     | K1   |       | Ø G  |    | Weight |      | M  |
|---------------------|-------|----|------|-------|------|-----|------|--------|------|-----|------|----|------|----|------|-----|------|-------|------|----|--------|------|----|
|                     | in    | DN | in   | mm    | in   | mm  | in   | mm     | in   | mm  | in   | mm | in   | mm | in   | mm  | in   | mm    | in   | mm | lbs    | kgs  |    |
| BKH-14-NPT-6000-SS  | 1/4   | 8  | 0.37 | 9.50  | 2.80 | 71  | 2.34 | 59.50  | 4.25 | 108 | 0.20 | 5  | 0.31 | 8  | 0.31 | 7.8 | 0.50 | 12.80 | 1.42 | 36 | 1.15   | 0.52 | M5 |
| BKH-38-NPT-6000-SS  | 3/8   | 10 | 0.37 | 9.50  | 2.80 | 71  | 2.34 | 59.50  | 4.25 | 108 | 0.20 | 5  | 0.31 | 8  | 0.31 | 7.8 | 0.50 | 12.80 | 1.42 | 36 | 1.19   | 0.54 | M5 |
| BKH-12-NPT-6000-SS  | 1/2   | 15 | 0.49 | 12.50 | 3.19 | 81  | 2.34 | 59.50  | 4.25 | 108 | 0.20 | 5  | 0.31 | 8  | 0.31 | 7.8 | 0.50 | 12.80 | 1.42 | 36 | 1.50   | 0.68 | M5 |
| BKH-34-NPT-6000-SS  | 3/4   | 20 | 0.79 | 20.00 | 3.78 | 96  | 2.50 | 63.50  | 5.16 | 131 | 0.28 | 7  | 0.39 | 10 | 0.55 | 14  | 0.83 | 21.00 | 1.65 | 42 | 2.76   | 1.25 | M5 |
| BKH-1-NPT-6000-SS   | 1     | 25 | 0.98 | 25.00 | 4.25 | 108 | 3.00 | 76.20  | 6.57 | 167 | 0.39 | 10 | 0.55 | 14 | 0.75 | 19  | 1.07 | 27.20 | 1.97 | 50 | 4.87   | 2.21 | M5 |
| SKH-114-NPT-6000-SS | 1 1/4 | 32 | 1.26 | 32.00 | 4.72 | 120 | 3.19 | 81.00  | 6.57 | 167 | 0.39 | 10 | 0.55 | 14 | 0.79 | 20  | 1.11 | 28.20 | 1.97 | 50 | 7.41   | 3.36 | M5 |
| SKH-112-NPT-6000-SS | 1 1/2 | 40 | 1.50 | 38.00 | 5.12 | 130 | 4.30 | 109.20 | 8.66 | 220 | 0.47 | 12 | 0.75 | 19 | 1.14 | 29  | 1.56 | 39.50 | 2.76 | 70 | 12.10  | 5.49 | M5 |
| SKH-2-NPT-6000-SS   | 2     | 50 | 1.50 | 38.00 | 5.91 | 150 | 4.30 | 109.20 | 8.66 | 220 | 0.47 | 12 | 0.75 | 19 | 1.14 | 29  | 1.56 | 39.50 | 2.76 | 70 | 14.73  | 6.68 | M5 |

## LV2B SERIES - 1000 WOG STAINLESS STEEL

### BALL VALVES



### SPECIFICATIONS

- All stainless steel construction
- Locking handles standard
- Ideal for suction, pressure and return lines
- Available in NPT & SAE threads
- Mounting holes standard on SAE #16 - #64

### MODEL CODE

**LV2B N 1/2" - 2T**

#### THREAD TYPE

|          |                     |
|----------|---------------------|
| <b>N</b> | NPT Pipe Thread     |
| <b>S</b> | SAE Straight Thread |

#### THREAD SIZE

|          |        |
|----------|--------|
| Example: | N 1/2" |
| Example: | S #8   |

### LV2B SERIES - NPT

| PART #        | SIZE   | A    | B    | C    | D    | E    | F<br>UNC | G    |
|---------------|--------|------|------|------|------|------|----------|------|
| LV2BN1/4-2T   | 1/4"   | 0.36 | 2.13 | 2.13 | 1.12 | 0.49 | N/A      | 4.33 |
| LV2BN3/8-2T   | 3/8"   | 0.50 | 2.13 | 2.17 | 1.12 | 0.49 | N/A      | 4.33 |
| LV2BN1/2-2T   | 1/2"   | 0.59 | 2.24 | 2.28 | 1.12 | 0.49 | N/A      | 4.53 |
| LV2BN3/4-2T   | 3/4"   | 0.79 | 2.68 | 2.40 | 1.12 | 0.49 | N/A      | 4.53 |
| LV2BN1-2T     | 1"     | 0.98 | 3.15 | 3.03 | 1.38 | 0.91 | N/A      | 5.04 |
| LV2BN1-1/4-2T | 1-1/4" | 1.26 | 3.58 | 3.19 | 1.48 | 1.00 | N/A      | 5.04 |
| LV2BN1-1/2-2T | 1-1/2" | 1.50 | 4.06 | 3.54 | 1.48 | 1.00 | N/A      | 6.10 |
| LV2BN2-2T     | 2"     | 1.97 | 4.88 | 4.25 | 1.50 | 1.00 | N/A      | 6.10 |
| LV2BN2-1/2-2T | 2-1/2" | 2.56 | 6.30 | 5.20 | N/A  | N/A  | N/A      | 9.06 |
| LV2BN3-2T     | 3"     | 3.15 | 7.28 | 5.71 | N/A  | N/A  | N/A      | 9.06 |

### LV2B SERIES - SAE

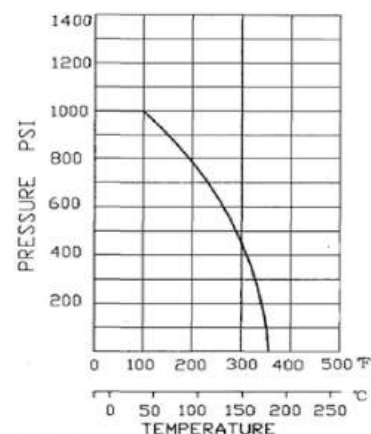
| PART #      | SIZE | A    | B    | C    | D    | E    | F<br>UNC | G     |
|-------------|------|------|------|------|------|------|----------|-------|
| LV2BS#4-2T  | #4   | 0.35 | 2.40 | 2.13 | 1.12 | 0.49 | N/A      | 4.33  |
| LV2BS#6-2T  | #6   | 0.47 | 2.40 | 2.17 | 1.12 | 0.49 | N/A      | 4.33  |
| LV2BS#8-2T  | #8   | 0.59 | 2.52 | 2.28 | 1.12 | 0.49 | N/A      | 4.53  |
| LV2BS#12-2T | #12  | 0.79 | 3.23 | 2.40 | 1.12 | 0.49 | N/A      | 4.53  |
| LV2BS#16-2T | #16  | 0.98 | 3.62 | 3.03 | 1.38 | 0.91 | 1/4-20   | 5.04  |
| LV2BS#20-2T | #20  | 1.26 | 3.96 | 3.19 | 1.48 | 1.00 | 1/4-20   | 5.04  |
| LV2BS#24-2T | #24  | 1.50 | 4.23 | 3.54 | 1.48 | 1.00 | 1/4-20   | 6.10  |
| LV2BS#32-2T | #32  | 1.97 | 4.90 | 4.25 | 1.50 | 1.00 | 1/4-20   | 6.10  |
| LV2BS#40-2T | #40  | 2.56 | 6.30 | 5.20 | 2.25 | 1.18 | 1/4-20   | 9.06  |
| LV2BS#48-2T | #48  | 3.15 | 7.28 | 5.71 | 2.76 | 1.18 | 1/4-20   | 9.06  |
| LV2BS#64-2T | #64  | 3.93 | 8.80 | 7.11 | 2.76 | 1.18 | 1/4-20   | 13.00 |

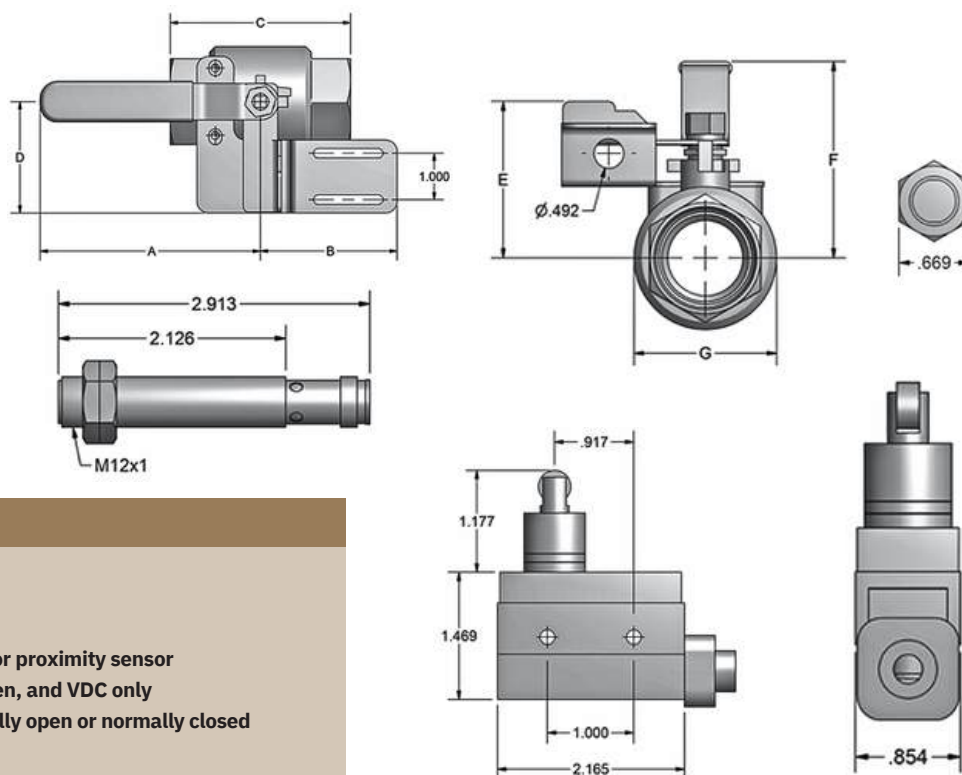
4" SAE - 500 PSI max for LV2BS#64-2T-MH

### COMPONENT MATERIALS

| COMPONENT        | MATERIAL          | QTY |
|------------------|-------------------|-----|
| Valve Body       | ASTM A351 GR CF8M | 1   |
| Tailpiece        | ASTM A351 GR CF8M | 1   |
| Ball             | ASTM A351 GR CF8M | 1   |
| Stem             | 316               | 1   |
| Ball Seat        | PTFE              | 2   |
| Stem Seat        | PTFE              | 1   |
| Stem Packing     | PTFE              | 1   |
| Stem Gland       | 304               | 1   |
| Handle           | 304               | 1   |
| Stem Lock Washer | 304               | 1   |
| Stem Nut         | 304               | 1   |
| Handle Sleeve    | VINYL             | 1   |
| Lock             | 304               | 1   |

### PRESSURE-TEMPERATURE RATING





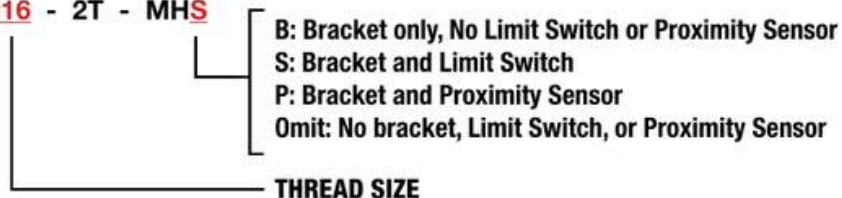
### SPECIFICATIONS

- All stainless steel construction
- Locking handle standard
- SAE threads manufactured to J1926
- Bracket designed to support limit switch or proximity sensor
- Prox is M12 4-Pin connector, normally open, and VDC only
- Limit can be wired VDC or VAC and normally open or normally closed
- Both Limit and prox have IP67 rating

### GENERAL DIMENSIONS

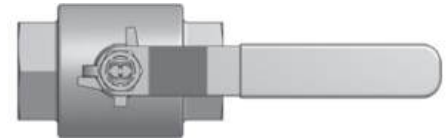
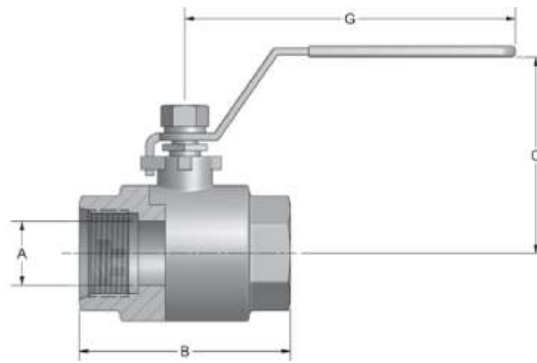
| PART NUMBER         | SIZE   | A     | B    | C    | D    | E    | F    | G    | ID   | PSI MAX |
|---------------------|--------|-------|------|------|------|------|------|------|------|---------|
| LV2BS#16 - 2T - MHS | 1"     | 5.00  | 2.90 | 3.60 | 2.45 | 2.50 | 3.25 | 2.07 | 0.98 | 1000    |
| LV2BS#20 - 2T - MHS | 1 1/4" | 5.15  | 2.95 | 3.95 | 2.45 | 2.85 | 3.10 | 2.36 | 1.26 | 1000    |
| LV2BS#24 - 2T - MHS | 1 1/2" | 6.10  | 2.96 | 4.24 | 2.38 | 3.28 | 3.97 | 2.77 | 1.50 | 1000    |
| LV2BS#32 - 2T - MHS | 2"     | 6.10  | 2.91 | 4.88 | 2.38 | 3.53 | 4.34 | 3.50 | 1.97 | 1000    |
| LV2BS#40 - 2T - MHS | 2 1/2" | 9.06  | 2.86 | 6.30 | 2.84 | 4.18 | 5.20 | 4.53 | 2.56 | 1000    |
| LV2BS#48 - 2T - MHS | 3"     | 9.06  | 2.91 | 7.26 | 3.07 | 4.70 | 5.71 | 5.35 | 3.15 | 1000    |
| LV2BS#56 - 2T - MHS | 4"     | 13.00 | 2.90 | 8.80 | 3.11 | 6.10 | 7.11 | 7.02 | 3.93 | 500     |

**LV2BS#16 - 2T - MHS**



## MV2B SERIES - 2000 WOG STAINLESS STEEL

### BALL VALVES



### SPECIFICATIONS

- All stainless steel construction
- Locking handles standard
- Ideal for suction, pressure and return lines
- Available in NPT & SAE threads

### MODEL CODE

**MV2B N 1/2" - 2T**

#### THREAD TYPE

|          |                     |
|----------|---------------------|
| <b>N</b> | NPT Pipe Thread     |
| <b>S</b> | SAE Straight Thread |

#### THREAD SIZE

|          |        |
|----------|--------|
| Example: | N 1/2" |
| Example: | S #8   |

### MV2B SERIES - NPT

| PART #        | SIZE   | A    | B    | C    | G    |
|---------------|--------|------|------|------|------|
| MV2BN1/4-2T   | 1/4"   | 0.36 | 2.13 | 2.13 | 4.33 |
| MV2BN3/8-2T   | 3/8"   | 0.50 | 2.13 | 2.17 | 4.33 |
| MV2BN1/2-2T   | 1/2"   | 0.59 | 2.24 | 2.28 | 4.53 |
| MV2BN3/4-2T   | 3/4"   | 0.79 | 2.76 | 2.40 | 4.53 |
| MV2BN1-2T     | 1"     | 0.98 | 3.25 | 3.03 | 5.04 |
| MV2BN1-1/4-2T | 1-1/4" | 1.26 | 3.58 | 3.19 | 5.04 |
| MV2BN1-1/2-2T | 1-1/2" | 1.50 | 4.06 | 3.54 | 6.10 |
| MV2BN2-2T     | 2"     | 1.97 | 4.90 | 4.25 | 6.10 |

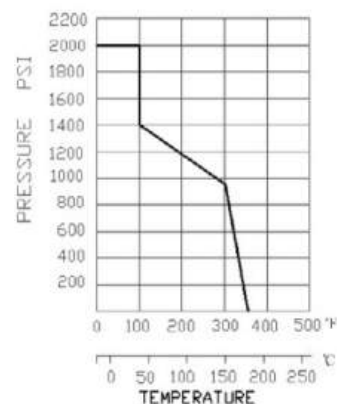
### MV2B SERIES - SAE

| PART #      | SIZE | A    | B    | C    | G    |
|-------------|------|------|------|------|------|
| MV2BS#4-2T  | #4   | 0.35 | 2.40 | 2.13 | 4.33 |
| MV2BS#6-2T  | #6   | 0.47 | 2.40 | 2.17 | 4.33 |
| MV2BS#8-2T  | #8   | 0.59 | 2.52 | 2.28 | 4.53 |
| MV2BS#12-2T | #12  | 0.79 | 3.23 | 2.40 | 4.53 |
| MV2BS#16-2T | #16  | 0.98 | 3.62 | 3.03 | 5.04 |
| MV2BS#20-2T | #20  | 1.26 | 3.96 | 3.19 | 5.04 |
| MV2BS#24-2T | #24  | 1.50 | 4.23 | 3.54 | 6.10 |
| MV2BS#32-2T | #32  | 1.97 | 4.90 | 4.25 | 6.10 |

### COMPONENT MATERIALS

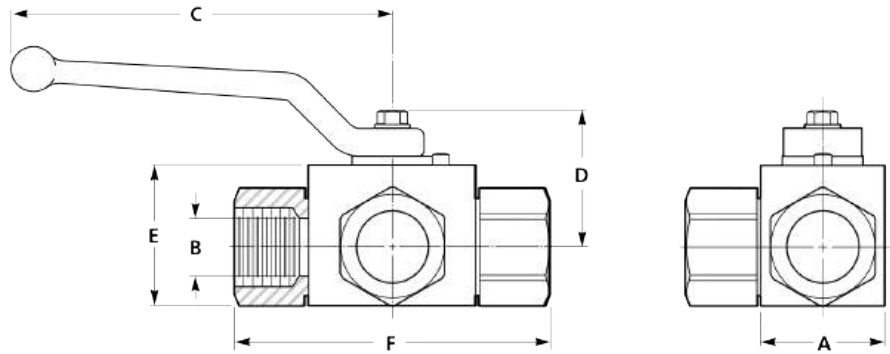
| COMPONENT        | MATERIAL          | QTY |
|------------------|-------------------|-----|
| Valve Body       | ASTM A351 GR CF8M | 1   |
| Tailpiece        | ASTM A351 GR CF8M | 1   |
| Ball             | ASTM A351 GR CF8M | 1   |
| Stem             | 316               | 1   |
| Ball Seat        | PTFE              | 2   |
| Stem Seat        | PTFE              | 1   |
| Stem Packing     | PTFE              | 1   |
| Stem Gland       | 304               | 1   |
| Handle           | 304               | 1   |
| Stem Lock Washer | 304               | 1   |
| Stem Nut         | 304               | 1   |
| Handle Sleeve    | VINYL             | 1   |
| Lock             | 304               | 1   |

### PRESSURE-TEMPERATURE RATING



## BK3 THREE-WAY DIVERTER VALVES NICKEL PLATED

### BALL VALVES



### SPECIFICATIONS

- Block body
- Full port
- NPT – ORB – BSP connections
- POM (Polyacetal) ball seats
- Buna O-Rings
- Zinc clear coating (ROHS compliant)
- Temp range -20°F to 215°F
- Nickel plated ball

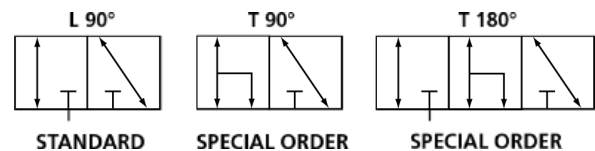
### OPTIONS

- Lock kits
- Actuator packages
- Straight handles
- Red Aluminum handles
- Stainless Steel
- Mounting holes
- Special ball seats and seals for higher temperature and aggressive applications

### BK3 SERIES

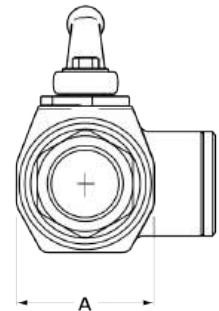
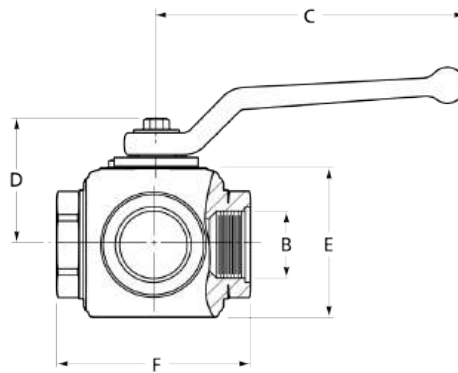
| SIZE | THREAD SIZE    | PART #              | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|------|----------------|---------------------|------------------|-----|------------------|------|------|------|------|------|
|      |                |                     | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| 1/4" | 1/4" NPTF      | BK3-14-NPT-1123-2-L | 5880             | 400 | 1.02             | 0.24 | 4.21 | 1.20 | 1.26 | 2.72 |
| 1/4" | 7/16"-20 ORB   | BK3-14-SAE-1123-2-L | 5880             | 400 | 1.02             | 0.24 | 4.21 | 1.20 | 1.26 | 2.72 |
| 3/8" | 3/8" NPTF      | BK3-38-NPT-1123-2-L | 5880             | 400 | 1.26             | 0.39 | 4.21 | 1.29 | 1.50 | 2.87 |
| 3/8" | 9/16"-18 ORB   | BK3-38-SAE-1123-2-L | 5880             | 400 | 1.26             | 0.39 | 4.21 | 1.29 | 1.50 | 2.87 |
| 1/2" | 1/2" NPTF      | BK3-12-NPT-1123-2-L | 5145             | 350 | 1.38             | 0.51 | 4.21 | 1.31 | 1.57 | 3.62 |
| 1/2" | 3/4"-16 ORB    | BK3-12-SAE-1123-2-L | 5145             | 350 | 1.38             | 0.51 | 4.21 | 1.31 | 1.57 | 3.62 |
| 3/4" | 3/4" NPTF      | BK3-34-NPT-1123-2-L | 5145             | 350 | 1.93             | 0.79 | 6.50 | 1.91 | 2.24 | 3.82 |
| 3/4" | 1 1/16"-12 ORB | BK3-34-SAE-1123-2-L | 5145             | 350 | 1.93             | 0.79 | 6.50 | 1.91 | 2.24 | 3.82 |
| 1"   | 1" NPTF        | BK3-1-NPT-1123-2-L  | 5145             | 350 | 2.36             | 0.94 | 6.50 | 1.95 | 2.36 | 4.45 |
| 1"   | 1 1/16"-12 ORB | BK3-1-SAE-1123-2-L  | 5145             | 350 | 2.36             | 0.94 | 6.50 | 1.95 | 2.36 | 4.45 |

**NOTE:** The sealing function of the BK3/SK3 standard valves is only given when the pressure standing on the closed port is less than or equal to the inlet pressure of the open port.



## SK3 THREE-WAY DIVERTER VALVES

### BALL VALVES



### SPECIFICATIONS

- Forged body
- Full port
- NPT – ORB – BSP connections
- POM (Polyacetal) ball seats
- Black oxide coating
- FKM/FPM O-Rings
- Temp range -20°F to 215°F
- Nickel plated ball

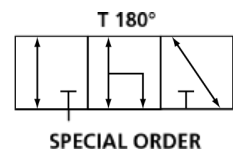
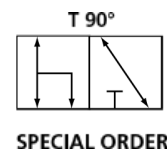
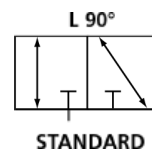
### OPTIONS

- Lock kits
- Actuator packages
- Red Aluminum handles
- Stainless Steel
- Special ball seats and seals for higher temperature and aggressive applications

### SK3 SERIES

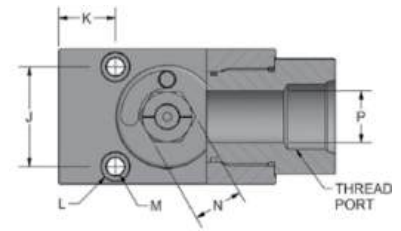
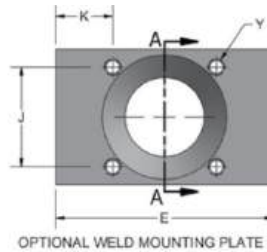
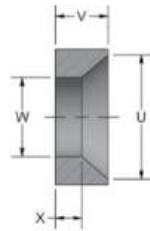
| SIZE | THREAD SIZE | PART #             | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|------|-------------|--------------------|------------------|-----|------------------|------|------|------|------|------|
|      |             |                    | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| 1¼"  | 1¼" NPTF    | SK3-114-NPT-3125-L | 5145             | 350 | 2.99             | 1.18 | 8.50 | 2.60 | 3.30 | 4.53 |
| 1¼"  | 1½"-12 ORB  | SK3-114-SAE-3125-L | 5145             | 350 | 2.99             | 1.18 | 8.50 | 2.60 | 3.30 | 4.53 |
| 1½"  | 1½" NPTF    | SK3-112-NPT-3125-L | 5145             | 350 | 3.27             | 1.37 | 8.30 | 2.73 | 3.62 | 4.81 |
| 1½"  | 1½"-12 ORB  | SK3-112-SAE-3125-L | 5145             | 350 | 3.27             | 1.37 | 8.30 | 2.73 | 3.62 | 4.81 |
| 2"   | 2" NPTF     | SK3-2-NPT-3125-L   | 5145             | 350 | 3.94             | 1.73 | 8.30 | 3.15 | 4.37 | 5.53 |
| 2"   | 2½"-12 ORB  | SK3-2-SAE-3125-L   | 5145             | 350 | 3.94             | 1.73 | 8.30 | 3.15 | 4.37 | 5.53 |

**NOTE:** The sealing function of the BK3/SK3 standard valves is only given when the pressure standing on the closed port is less than or equal to the inlet pressure of the open port.

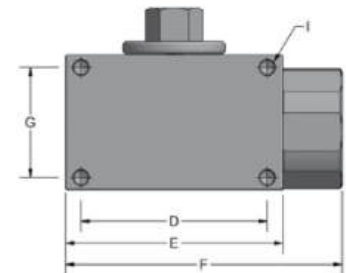
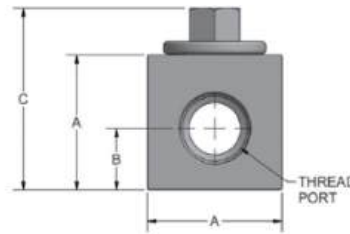


## AV2 SERIES - TWO-WAY EXCAVATOR STYLE

### BALL VALVES



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Hex stem eliminates need for attached handle
- Detented stop washer prevents accidental actuation
- Mounting holes standard
- Max pressure of 7250 PSI on all sizes
- No handle available for this series
- Optional weld mounting plates sold separately



### AV2 SERIES

| NPT        | SAE      | A    | B    | C    | D    | E    | F    | G    | H         | I    | J    | K    | L    | M    | N    | WEIGHT   |
|------------|----------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|----------|
| AV2N1/2    | AV2S#8   | 1.77 | 0.79 | 2.46 | 2.52 | 3.15 | 4.07 | 1.30 | M8 X 1.25 | 1.26 | 0.91 | 0.41 | 0.25 | 0.75 | 0.51 | 2.9 LBS  |
| AV2N3/4    | AV2S#12  | 2.17 | 0.92 | 3.05 | 3.15 | 3.98 | 5.10 | 1.69 | M8 X 1.25 | 1.57 | 1.00 | 0.53 | 0.32 | 0.94 | 0.79 | 5.3 LBS  |
| AV2N1      | AV2S#16  | 2.56 | 1.16 | 3.44 | 3.54 | 4.13 | 5.26 | 2.09 | M8 X 1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.6 LBS  |
| AV2N1-1/4R | AV2S#20R | 2.56 | 1.16 | 3.44 | 3.54 | 4.13 | 5.26 | 2.09 | M8 X 1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.2 LBS  |
| AV2N1-1/4  | AV2S#20  | 3.15 | 1.32 | 4.07 | 3.39 | 4.13 | 5.26 | 2.52 | M8 X 1.25 | 2.36 | 0.96 | 0.53 | 0.32 | 1.26 | 1.26 | 11.0 LBS |

Weld Plate Mounting Pattern Matches "J" Dimension (Top of Valve)

### WELD MOUNTING PLATES

| PART #    | VALVE SIZE          | U    | V    | W    | X   | Y              | KIT INCLUDED SHCS |
|-----------|---------------------|------|------|------|-----|----------------|-------------------|
| *WP-AV#8U | 1/2"                | N/A  | 1.00 | N/A  | N/A | M6 X 1.00      | M6 X 50 MM        |
| WP-AV#12U | 3/4"                | 1.97 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.25"      |
| WP-AV#16U | 1" & 1-1/4" REDUCED | 2.36 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.75"      |
| WP-AV#20U | 1-1/4" FULL         | 2.36 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 3.25"      |

\*No internal hole on this size weld plate.

## AV2 SERIES - TWO-WAY BLOCK BODY THREADED

### BALL VALVES

#### MODEL CODE BREAKDOWN

**AV2 N1/2 \_ - 1 1 D V**

#### VALVE SERIES

#### CONNECTION TYPE/SIZE

|          |                     |
|----------|---------------------|
| <b>N</b> | NPT Pipe Thread     |
| <b>S</b> | SAE Straight Thread |

#### BORE RESTRICTION

|              |                   |
|--------------|-------------------|
| <b>BLANK</b> | Unrestricted Bore |
| <b>R</b>     | Restricted Bore   |

#### BODY & ADAPTER MATERIAL

|          |              |
|----------|--------------|
| <b>1</b> | Carbon Steel |
|----------|--------------|

#### ADAPTER & STEM SEALS

|          |                  |
|----------|------------------|
| <b>V</b> | Viton (Standard) |
|----------|------------------|

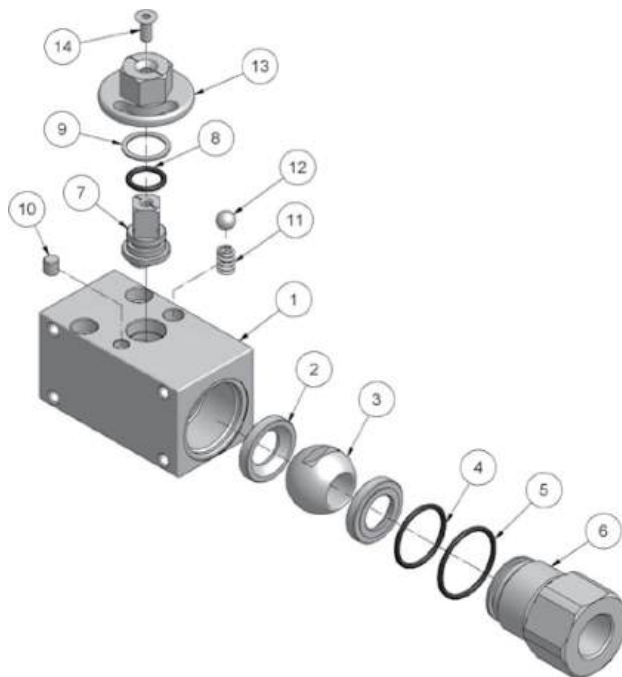
#### BALL & STEM SEATS

|          |     |
|----------|-----|
| <b>D</b> | POM |
|----------|-----|

#### BALL & STEM MATERIAL

|          |              |
|----------|--------------|
| <b>1</b> | Carbon Steel |
|----------|--------------|

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

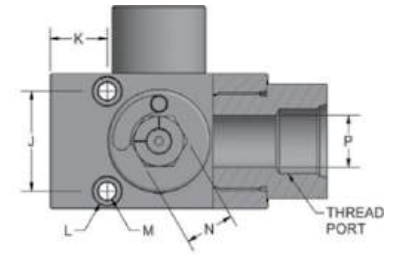
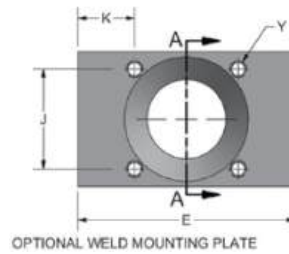
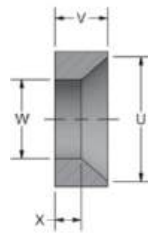


#### PARTS LIST

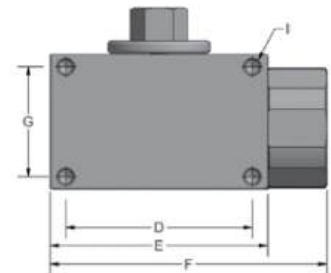
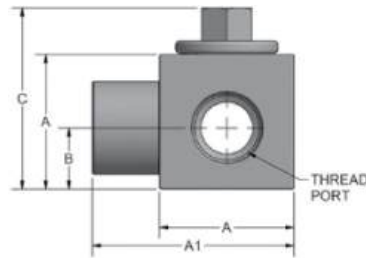
| ITEM | QTY | PART #                 |
|------|-----|------------------------|
| 1    | 1   | AV2 Valve Body         |
| 2    | 2   | Ball Seats             |
| 3    | 1   | Ball                   |
| 4    | 1   | Adapter O-Ring (Small) |
| 5    | 1   | Adapter O-Ring (Large) |
| 6    | 1   | Adapter                |
| 7    | 1   | Stem                   |
| 8    | 1   | Stem O-Ring            |
| 9    | 1   | Steam Seat             |
| 10   | 1   | Stop Pin               |
| 11   | 1   | Spring                 |
| 12   | 1   | Detent Ball            |
| 13   | 1   | Alignment Stop         |
| 14   | 1   | Screw                  |

## AV3 SERIES - THREE-WAY EXCAVATOR STYLE

### BALL VALVES



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Hex stem eliminates need for attached handle
- No handle available for this series
- Detented stop washer prevents accidental actuation
- Mounting holes standard
- Max pressure of 5075 PSI on all sizes
- Optional weld mounting plates sold separately



### AV3 SERIES

| NPT         | SAE       | A    | A1   | B    | C    | D    | E    | F    | G    | I       | J    | K    | L    | M    | N    | P    | WEIGHT  |
|-------------|-----------|------|------|------|------|------|------|------|------|---------|------|------|------|------|------|------|---------|
| AV3LN1/2    | AV3LS#8   | 1.77 | 2.62 | 0.79 | 2.74 | 2.52 | 3.15 | 4.07 | 1.30 | M8X1.25 | 1.26 | 0.91 | 0.41 | 0.25 | 0.75 | 0.51 | 3.0LBS  |
| AV3LN3/4    | AV3LS#12  | 2.17 | 3.35 | 0.92 | 2.89 | 3.15 | 3.98 | 5.10 | 1.69 | M8X1.25 | 1.57 | 1.00 | 0.53 | 0.32 | 0.94 | 0.79 | 5.5LBS  |
| AV3LN1      | AV3LS#16  | 2.56 | 3.84 | 1.16 | 3.29 | 3.54 | 4.13 | 5.26 | 2.09 | M8X1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.9LBS  |
| AV3LN1-1/4R | AV3LS#20R | 2.56 | 3.90 | 1.16 | 3.29 | 3.54 | 4.13 | 5.26 | 2.09 | M8X1.25 | 1.89 | 1.08 | 0.53 | 0.32 | 0.94 | 0.98 | 7.7LBS  |
| AV3LN1-1/4  | AV3LS#20  | 3.15 | 4.65 | 1.32 | 3.88 | 3.39 | 4.13 | 5.26 | 2.52 | M8X1.25 | 2.36 | 0.96 | 0.53 | 0.32 | 1.26 | 1.26 | 11.7LBS |

Weld Plate Mounting Pattern Matches "J" Dimension (Top of Valve)

### WELD MOUNTING PLATES

| PART #    | VALVE SIZE          | U    | V    | W    | X   | Y              | KIT INCLUDED SHCS |
|-----------|---------------------|------|------|------|-----|----------------|-------------------|
| *WP-AV#8U | 1/2"                | N/A  | 1.00 | N/A  | N/A | M6 X 1.00      | M6 X 50 MM        |
| WP-AV#12U | 3/4"                | 1.97 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.25"      |
| WP-AV#16U | 1" & 1-1/4" REDUCED | 2.36 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 2.75"      |
| WP-AV#20U | 1-1/4" FULL         | 2.36 | 1.00 | 1.50 | .50 | 5/16-18 UNC-2B | 5/16 X 3.25"      |

\*No internal hole on this size weld plate.

## AV3 SERIES - THREE-WAY BLOCK BODY THREADED

### BALL VALVES

#### MODEL CODE BREAKDOWN

**AV3 N1/2 \_ - 1 1 D B**

#### VALVE SERIES

#### CONNECTION TYPE/SIZE

|          |                     |
|----------|---------------------|
| <b>N</b> | NPT Pipe Thread     |
| <b>S</b> | SAE Straight Thread |

#### BORE RESTRICTION

|              |                   |
|--------------|-------------------|
| <b>BLANK</b> | Unrestricted Bore |
| <b>R</b>     | Restricted Bore   |

#### BODY & ADAPTER MATERIAL

|          |              |
|----------|--------------|
| <b>1</b> | Carbon Steel |
|----------|--------------|

#### ADAPTER & STEM SEALS

|          |                  |
|----------|------------------|
| <b>V</b> | Viton (Standard) |
|----------|------------------|

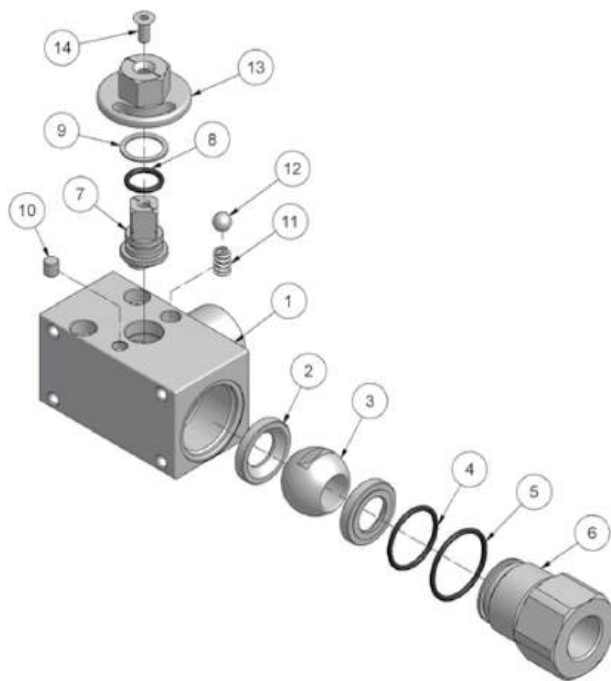
#### BALL & STEM SEATS

|          |     |
|----------|-----|
| <b>D</b> | POM |
|----------|-----|

#### BALL & STEM MATERIAL

|          |              |
|----------|--------------|
| <b>1</b> | Carbon Steel |
|----------|--------------|

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.



#### PARTS LIST

| ITEM | QTY | PART #                 |
|------|-----|------------------------|
| 1    | 1   | AV3 Valve Body         |
| 2    | 2   | Ball Seats             |
| 3    | 1   | Ball                   |
| 4    | 1   | Adapter O-Ring (Small) |
| 5    | 1   | Adapter O-Ring (Large) |
| 6    | 1   | Adapter                |
| 7    | 1   | Stem                   |
| 8    | 1   | Stem O-Ring            |
| 9    | 1   | Stem Seat              |
| 10   | 1   | Stop Pin               |
| 11   | 1   | Spring                 |
| 12   | 1   | Detent Ball            |
| 13   | 1   | Alignment Stop         |
| 14   | 1   | Screw                  |

## LOW PRESSURE STAINLESS STEEL BALL VALVES

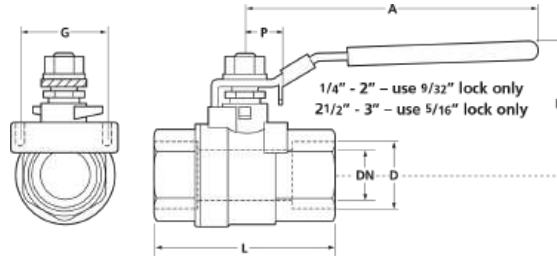
### BALL VALVES

#### SPECIFICATIONS

- 316 Stainless body, ball and stem
- Pure PTFE seats
- Blow-out proof stems
- Lock handle standard
- Full port

#### TEMPERATURE RATING

- -20°F to 350°F

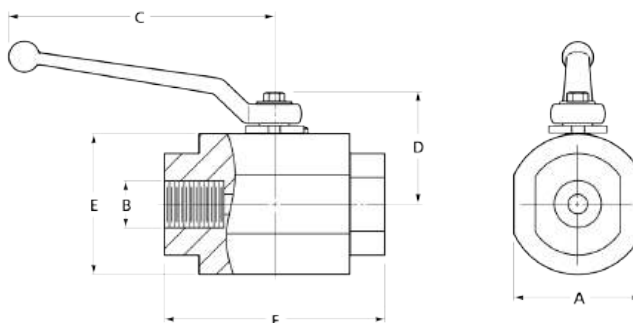


#### SLB SERIES

| SIZE | THREAD SIZE | PART #         | PSI  | DIMENSIONS |      |      |      |      |      |      |
|------|-------------|----------------|------|------------|------|------|------|------|------|------|
|      |             |                |      | D          | DN   | P    | L    | G    | A    | H    |
| ¼"   | ¼" NPTF     | SLB-14-NPT-LH  | 1000 | ¼"         | 0.45 | 0.38 | 2.16 | 1.12 | 3.93 | 1.96 |
| ⅜"   | ⅜" NPTF     | SLB-38-NPT-LH  | 1000 | ⅜"         | 0.49 | 0.38 | 2.16 | 1.12 | 3.93 | 1.96 |
| ½"   | ½" NPTF     | SLB-12-NPT-LH  | 1000 | ½"         | 0.59 | 0.43 | 2.55 | 1.12 | 5.11 | 2.36 |
| ¾"   | ¾" NPTF     | SLB-34-NPT-LH  | 1000 | ¾"         | 0.78 | 0.43 | 2.93 | 1.38 | 5.11 | 2.51 |
| 1"   | 1" NPTF     | SLB-1-NPT-LH   | 1000 | 1"         | 0.98 | 0.53 | 3.46 | 1.38 | 6.49 | 2.79 |
| 1 ¼" | 1 ¼" NPTF   | SLB-114-NPT-LH | 1000 | 1 ¼"       | 1.25 | 0.53 | 4.01 | 1.50 | 6.49 | 3.07 |
| 1 ½" | 1 ½" NPTF   | SLB-112-NPT-LH | 1000 | 1 ½"       | 1.49 | 0.61 | 4.33 | 1.50 | 7.48 | 3.38 |
| 2"   | 2" NPTF     | SLB-2-NPT-LH   | 1000 | 2"         | 1.96 | 0.61 | 4.92 | 1.50 | 7.48 | 3.74 |
| 2 ½" | 2 ½" NPTF   | SLB-212-NPT-LH | 1000 | 2 ½"       | 2.56 | 1.75 | 6.02 | 2.56 | 9.61 | 4.72 |
| 3"   | 3" NPTF     | SLB-3-NPT-LH   | 1000 | 3"         | 3.15 | 1.75 | 6.85 | 2.56 | 9.61 | 5.16 |

## HRKH SERIES ULTRA HIGH-PRESSURE BALL VALVES

### BALL VALVES



#### SPECIFICATIONS

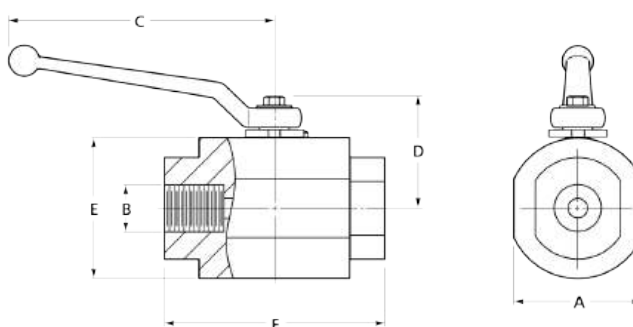
- Carbon steel
- NPT threads
- POM (Polyacetal) ball seats
- Buna-N O-Rings
- Temp range -20°F to 215°F
- Nickel plated ball

#### HRKH SERIES CARBON STEEL

| SIZE | THREAD SIZE | PART #           | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|------|-------------|------------------|------------------|-----|------------------|------|------|------|------|------|
|      |             |                  | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| 1/4" | 1/4" NPTF   | HRKH-14-NPT-3923 | 11,760           | 800 | 2.33             | 0.24 | 4.21 | 1.61 | 2.33 | 3.86 |
| 3/8" | 3/8" NPTF   | HRKH-38-NPT-3923 | 11,760           | 800 | 2.33             | 0.35 | 4.21 | 1.61 | 2.33 | 3.86 |
| 1/2" | 1/2" NPTF   | HRKH-12-NPT-3923 | 11,760           | 800 | 2.33             | 0.35 | 4.21 | 1.61 | 2.33 | 3.86 |
| 3/4" | 3/4" NPTF   | HRKH-34-NPT-3923 | 11,760           | 800 | 3.11             | 0.51 | 6.49 | 2.20 | 3.11 | 4.49 |
| 1"   | 1" NPTF     | HRKH-1-NPT-3923  | 11,760           | 800 | 3.11             | 0.67 | 6.49 | 2.50 | 3.70 | 4.73 |

#### OPTIONS

- Actuator packages
- Straight handles
- Red Aluminum handles
- Special ball seats and seals for higher temperature and aggressive applications



#### SPECIFICATIONS

- 316 Stainless steel
- NPT threads
- POM (Polyacetal) ball seats
- FKM/FPM O-Rings
- Temp range -20°F to 215°F
- Stainless ball

#### HRKH SERIES STAINLESS STEEL

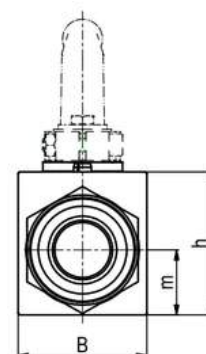
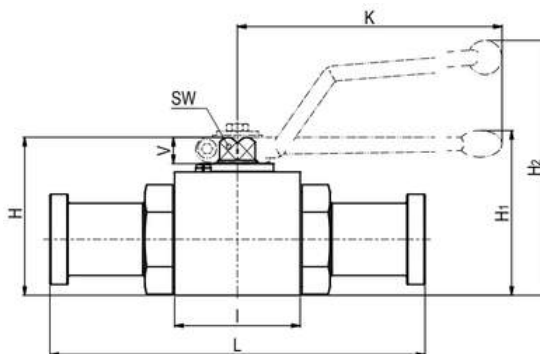
| SIZE | THREAD SIZE | PART #           | WORKING PRESSURE |     | DIMENSIONS (IN.) |      |      |      |      |      |
|------|-------------|------------------|------------------|-----|------------------|------|------|------|------|------|
|      |             |                  | PSI              | BAR | A                | B    | C    | D    | E    | F    |
| 1/4" | 1/4" NPTF   | HRKH-14-NPT-4425 | 10,150           | 700 | 2.33             | 0.24 | 4.21 | 1.61 | 2.33 | 3.86 |
| 3/8" | 3/8" NPTF   | HRKH-38-NPT-4425 | 10,150           | 700 | 2.33             | 0.35 | 4.21 | 1.61 | 2.33 | 3.86 |
| 1/2" | 1/2" NPTF   | HRKH-12-NPT-4425 | 10,150           | 700 | 2.33             | 0.35 | 4.21 | 1.61 | 2.33 | 3.86 |
| 3/4" | 3/4" NPTF   | HRKH-34-NPT-4425 | 10,150           | 700 | 3.11             | 0.51 | 6.49 | 2.20 | 3.11 | 4.49 |
| 1"   | 1" NPTF     | HRKH-1-NPT-4425  | 10,150           | 700 | 3.11             | 0.67 | 6.49 | 2.50 | 3.70 | 4.73 |

#### OPTIONS

- Actuator packages
- Straight handles
- Red Aluminum handles
- Special ball seats and seals for higher temperature and aggressive applications

# BKH SPLIT FLANGE X SPLIT FLANGE SPIGOT CD 61/62

**BALL VALVES**



## ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

## MATERIAL CODE DESCRIPTION

| Materials   | 112A         |
|-------------|--------------|
| Body        | Steel        |
| Ball        | Steel        |
| Stem        | Steel        |
| Ball Seats  | POM          |
| O-Rings     | NBR          |
| Tmin / Tmax | -4°F / 212°F |

## AVAILABLE SIZES

1/2" to 1" (Dash Size 8-16)

## CONNECTIONS

ISO 61-1, ISO 62-2

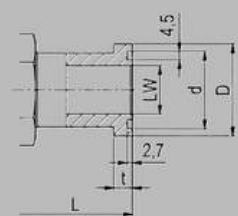
## GENERAL DIMENSIONS

| TYPE            | SIZE | I    | B    | H    | h    | m    | V    | SW   | K    | H <sub>1</sub> | H <sub>2</sub> | Handle |
|-----------------|------|------|------|------|------|------|------|------|------|----------------|----------------|--------|
| BKH-8-FS3-112A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | -              | 3.50           | Zn     |
| BKH-12-FS3-112A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 7.87 | 3.11           | -              | Zn     |
| BKH-16-FS3-112A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 7.87 | 3.43           | -              | Zn     |
| BKH-8-FS6-112A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | -              | 3.50           | Zn     |
| BKH-12-FS6-112A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 7.87 | 3.11           | -              | Zn     |
| BKH-16-FS6-112A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 7.87 | 3.43           | -              | Zn     |

\*Add "-LD" to the part number for locking device

## CONNECTION TYPE

### ISO 61-1

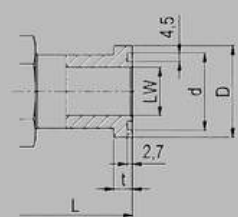


## DIMENSIONS

| TYPE            | LW   | L    | d    | D    | t    | Weight (lb) | Pressure Rating (PSI) |
|-----------------|------|------|------|------|------|-------------|-----------------------|
| BKH-8-FS3-112A  | 0.51 | 5.94 | 1.00 | 1.19 | 0.27 | 1.87        | 5075                  |
| BKH-12-FS3-112A | 0.75 | 6.38 | 1.26 | 1.50 | 0.27 | 4.12        | 5075                  |
| BKH-16-FS3-112A | 0.98 | 7.01 | 1.57 | 1.75 | 0.32 | 5.95        | 4650                  |

## CONNECTION TYPE

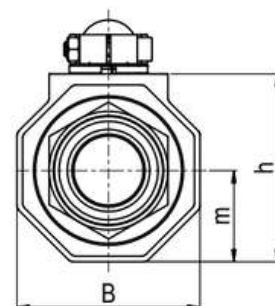
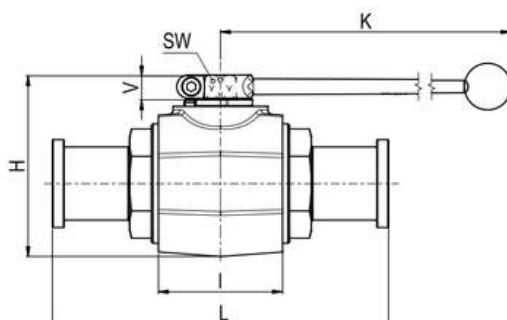
### ISO 62-2



## DIMENSIONS

| TYPE            | LW   | L    | d    | D    | t    | Weight (lb) | Pressure Rating (PSI) |
|-----------------|------|------|------|------|------|-------------|-----------------------|
| BKH-8-FS6-112A  | 0.51 | 5.94 | 1.00 | 1.25 | 0.31 | 1.98        | 6000                  |
| BKH-12-FS6-112A | 0.75 | 6.85 | 1.26 | 1.63 | 0.35 | 4.39        | 6000                  |
| BKH-16-FS6-112A | 0.98 | 7.80 | 1.57 | 1.87 | 0.38 | 6.62        | 5075                  |

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**ACCESSORIES ON REQUEST**

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

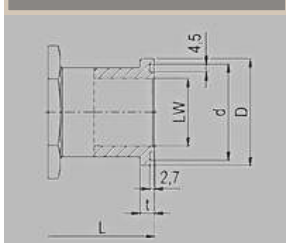
**MATERIAL CODE DESCRIPTION**

| Materials   | 112A         |
|-------------|--------------|
| Body        | Steel        |
| Ball        | Steel        |
| Stem        | Steel        |
| Ball Seats  | POM          |
| O-Rings     | NBR          |
| Tmin / Tmax | -4°F / 212°F |

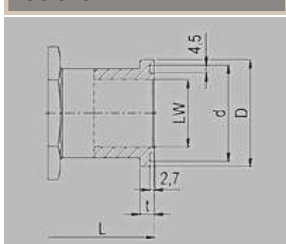
**AVAILABLE SIZES**
**1 1/4" to 2" (Dash Size 20-32)**
**CONNECTIONS**
**ISO 6162-1, ISO 6162-2**
**GENERAL DIMENSIONS**

| TYPE             | SIZE   | I    | B<br>8Kt | H    | h    | m    | V    | SW   | K     | Lever |
|------------------|--------|------|----------|------|------|------|------|------|-------|-------|
| MKHP-20-FS3-112A | 1 1/4" | 3,15 | 3,19     | 4,21 | 3,39 | 1,59 | 0,65 | 0,67 | 12,60 | Al    |
| MKHP-24-FS3-112A | 1 1/2" | 3,35 | 3,94     | 4,88 | 4,06 | 1,97 | 0,65 | 0,67 | 12,60 | Al    |
| MKHP-32-FS3-112A | 2"     | 3,94 | 4,65     | 5,43 | 4,61 | 2,32 | 0,65 | 0,67 | 12,60 | Al    |
| MKHP-20-FS6-112A | 1 1/4" | 3,15 | 3,19     | 4,21 | 3,39 | 1,59 | 0,65 | 0,67 | 12,60 | Al    |
| MKHP-24-FS6-112A | 1 1/2" | 3,35 | 3,94     | 4,88 | 4,06 | 1,97 | 0,65 | 0,67 | 12,60 | Al    |
| MKHP-32-FS6-112A | 2"     | 3,94 | 4,65     | 5,43 | 4,61 | 2,32 | 0,65 | 0,67 | 12,60 | Al    |

Please note the pressure ratings of the connection flanges!

**CONNECTION TYPE**
**ISO 6162-1**

**DIMENSIONS**

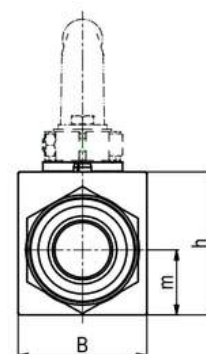
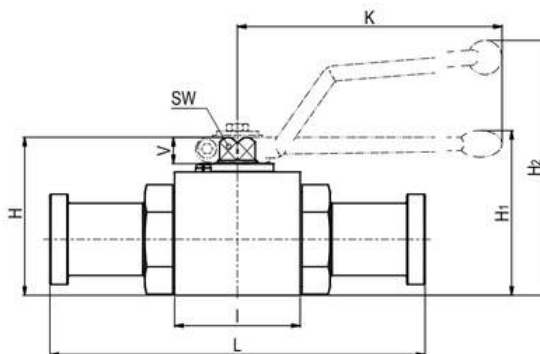
| TYPE             | LW   | L    | d <sup>+/-0,1</sup> | D <sub>-0,2</sub> | t <sub>-0,2</sub> | Weight (Kg) | Pressure Rating [psi] |
|------------------|------|------|---------------------|-------------------|-------------------|-------------|-----------------------|
| MKHP-20-FS3-112A | 1.18 | 7.52 | 1.76                | 2.00              | 0.32              | 9.31        | 4000                  |
| MKHP-24-FS3-112A | 1.50 | 9.09 | 2.13                | 2.37              | 0.32              | 14.42       | 3000                  |
| MKHP-32-FS3-112A | 1.89 | 9.13 | 2.50                | 2.81              | 0.38              | 20.48       | 3000                  |

**CONNECTION TYPE**
**ISO 6162-2**

**DIMENSIONS**

| TYPE             | LW   | L     | d <sup>+/-0,1</sup> | D <sub>-0,2</sub> | t <sub>-0,2</sub> | Weight (Kg) | Pressure Rating [psi] |
|------------------|------|-------|---------------------|-------------------|-------------------|-------------|-----------------------|
| MKHP-20-FS6-112A | 1.18 | 8.78  | 1.76                | 2.13              | 0.41              | 10.41       | 6000                  |
| MKHP-24-FS6-112A | 1.50 | 11.06 | 2.13                | 2.50              | 0.50              | 16.52       | 6000                  |
| MKHP-32-FS6-112A | 1.89 | 12.44 | 2.50                | 3.13              | 0.50              | 25.11       | 6000                  |

# BKH SPLIT FLANGE X SPLIT FLANGE SPIGOT CD 61/62 STAINLESS STEEL

**BALL VALVES**



## ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

## MATERIAL CODE DESCRIPTION

| Materials   | 442A            |
|-------------|-----------------|
| Body        | Stainless Steel |
| Ball        | Stainless Steel |
| Stem        | Stainless Steel |
| Ball Seats  | POM             |
| O-Rings     | NBR             |
| Tmin / Tmax | -22°F / 212°F   |

## AVAILABLE SIZES

1/2" to 1" (Dash Size 8-16)

## CONNECTIONS

ISO 61-1, ISO 62-2

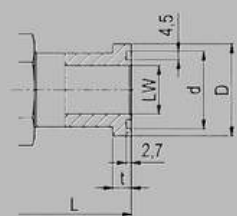
## GENERAL DIMENSIONS

| TYPE            | SIZE | I    | B    | H    | h    | m    | V    | SW   | K    | H <sub>1</sub> | H <sub>2</sub> | Handle |
|-----------------|------|------|------|------|------|------|------|------|------|----------------|----------------|--------|
| BKH-8-FS3-442A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | -              | 3.50           | Zn     |
| BKH-12-FS3-442A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 7.87 | 3.11           | -              | Zn     |
| BKH-16-FS3-442A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 7.87 | 3.43           | -              | Zn     |
| BKH-8-FS6-442A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | -              | 3.50           | Zn     |
| BKH-12-FS6-442A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 7.87 | 3.11           | -              | Zn     |
| BKH-16-FS6-442A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 7.87 | 3.43           | -              | Zn     |

\*Add "-LD" to the part number for locking device

## CONNECTION TYPE

### ISO 61-1

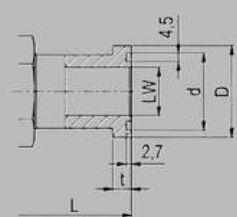


## DIMENSIONS

| TYPE            | LW   | L    | d    | D    | t    | Weight (lb) | Pressure Rating (PSI) |
|-----------------|------|------|------|------|------|-------------|-----------------------|
| BKH-8-FS3-442A  | 0.51 | 5.94 | 1.00 | 1.19 | 0.27 | 1.87        | 5000                  |
| BKH-12-FS3-442A | 0.75 | 6.38 | 1.26 | 1.50 | 0.27 | 4.12        | 5000                  |
| BKH-16-FS3-442A | 0.98 | 7.01 | 1.57 | 1.75 | 0.32 | 5.95        | 4600                  |

## CONNECTION TYPE

### ISO 62-2



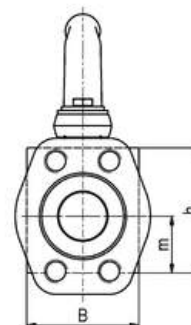
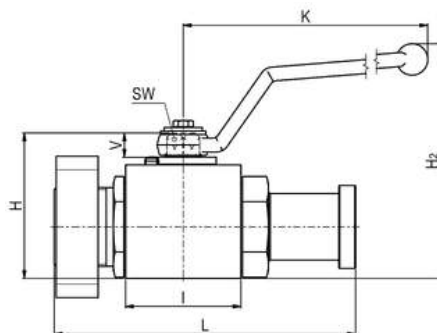
## DIMENSIONS

| TYPE            | LW   | L    | d    | D    | t    | Weight (lb) | Pressure Rating (PSI) |
|-----------------|------|------|------|------|------|-------------|-----------------------|
| BKH-8-FS6-442A  | 0.51 | 5.94 | 1.00 | 1.25 | 0.31 | 1.98        | 6000                  |
| BKH-12-FS6-442A | 0.75 | 6.85 | 1.26 | 1.63 | 0.35 | 4.39        | 5000                  |
| BKH-16-FS6-442A | 0.98 | 7.80 | 1.57 | 1.87 | 0.38 | 6.62        | 5000                  |

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# BKH COMBINATION FLAT FACE (COMPANION) X SPIGOT (O-RING) STEEL

**BALL VALVES**



## ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

## MATERIAL CODE DESCRIPTION

| Materials   | 112A          |
|-------------|---------------|
| Body        | Steel         |
| Ball        | Steel         |
| Stem        | Steel         |
| Ball Seats  | POM           |
| O-Rings     | NBR           |
| Tmin / Tmax | -20°C / 100°C |

## AVAILABLE SIZES

1/2" to 1" (Dash Size 8-16)

## CONNECTIONS

ISO 61-1, ISO 62-2

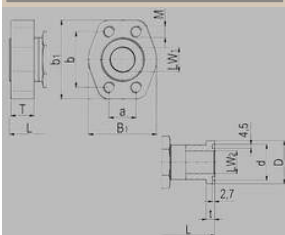
## GENERAL DIMENSIONS

| TYPE           | SIZE | I  | B  | H  | h  | m    | V  | SW | K   | H <sub>2</sub> | Lever |
|----------------|------|----|----|----|----|------|----|----|-----|----------------|-------|
| BKH-8-C3-112A  | 1/2" | 48 | 35 | 54 | 40 | 19   | 11 | 9  | 115 | 89             | Zn    |
| BKH-12-C3-112A | 3/4" | 62 | 49 | 75 | 57 | 24,5 | 14 | 14 | 171 | 127            | St    |
| BKH-16-C3-112A | 1"   | 66 | 58 | 83 | 65 | 29,5 | 14 | 14 | 171 | 135            | St    |
| BKH-8-C6-112A  | 1/2" | 48 | 35 | 54 | 40 | 19   | 11 | 9  | 115 | 89             | Zn    |
| BKH-12-C6-112A | 3/4" | 62 | 49 | 75 | 57 | 24,5 | 14 | 14 | 171 | 127            | St    |
| BKH-16-C6-112A | 1"   | 66 | 58 | 83 | 65 | 29,5 | 14 | 14 | 171 | 135            | St    |

\*Add "-LD" to the part number for locking device

## CONNECTION TYPE

### ISO 61-1

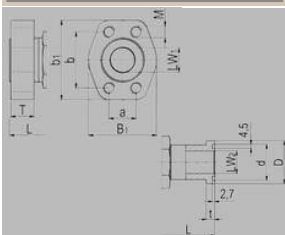


## DIMENSIONS

| TYPE           | LW <sub>1</sub> | LW <sub>2</sub> | L   | B <sub>1</sub> | b <sub>1</sub> | T  | a    | b    | M <sup>(1)</sup> | d    | D    | t   | Weight (Kg) | PN (bar) |
|----------------|-----------------|-----------------|-----|----------------|----------------|----|------|------|------------------|------|------|-----|-------------|----------|
| BKH-8-C3-112A  | 13              | 13              | 136 | 48             | 56             | 13 | 17,5 | 38,1 | M8               | 25,5 | 30,2 | 6,8 | 1,18        | 350      |
| BKH-12-C3-112A | 20              | 19              | 149 | 50             | 65             | 14 | 22,2 | 47,6 | M10              | 31,9 | 38,1 | 6,8 | 2,15        | 350      |
| BKH-16-C3-112A | 25              | 25              | 163 | 60             | 70             | 16 | 26,2 | 52,4 | M10              | 39,8 | 44,4 | 8,1 | 3,60        | 320      |

## CONNECTION TYPE

### ISO 62-2



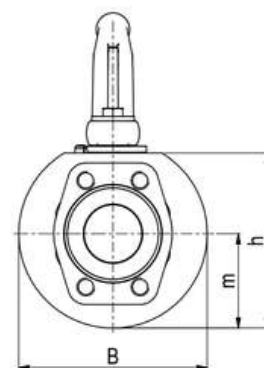
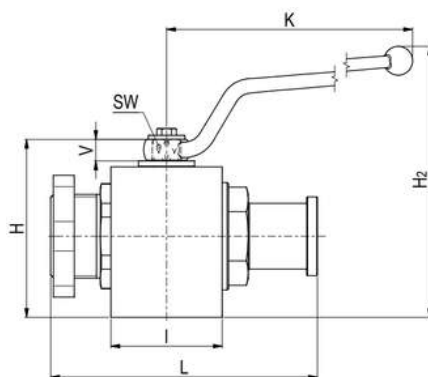
## DIMENSIONS

| TYPE           | LW <sub>1</sub> | LW <sub>2</sub> | L   | B <sub>1</sub> | b <sub>1</sub> | T  | a    | b    | M <sup>(1)</sup> | d    | D    | t   | Weight (Kg) | PN (bar) |
|----------------|-----------------|-----------------|-----|----------------|----------------|----|------|------|------------------|------|------|-----|-------------|----------|
| BKH-8-C6-112A  | 13              | 13              | 136 | 48             | 56             | 16 | 18,2 | 40,5 | M8               | 25,5 | 31,8 | 7,9 | 1,20        | 420      |
| BKH-12-C6-112A | 20              | 19              | 155 | 60             | 71             | 19 | 23,8 | 50,8 | M10              | 31,9 | 41,3 | 8,9 | 2,26        | 420      |
| BKH-16-C6-112A | 25              | 25              | 173 | 70             | 81             | 24 | 27,8 | 57,2 | M12              | 39,8 | 47,6 | 9,6 | 3,75        | 350      |

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## MKHP COMBINATION FLAT FACE (COMPANION) X SPIGOT (O-RING) STEEL

### BALL VALVES



### ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

### MATERIAL CODE DESCRIPTION

| Materials   | 112A         |
|-------------|--------------|
| Body        | Steel        |
| Ball        | Steel        |
| Stem        | Steel        |
| Ball Seats  | POM          |
| O-Rings     | NBR          |
| Tmin / Tmax | -4°F / 212°F |

### AVAILABLE SIZES

1 1/4" to 2" (Dash Size 20-32)

### CONNECTIONS

ISO 6162-1, ISO 6162-2

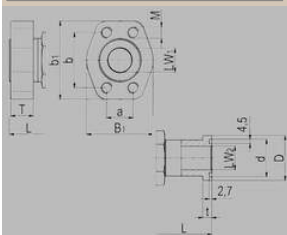
### GENERAL DIMENSIONS

| TYPE            | SIZE   | I    | B<br>8Kt | H    | h    | m    | V    | SW   | K     | H <sub>2</sub> | Lever |
|-----------------|--------|------|----------|------|------|------|------|------|-------|----------------|-------|
| MKHP-20-C3-112A | 1 1/4" | 3.15 | 3.19     | 4.21 | 3.39 | 1.59 | 0.65 | 0.67 | 12.05 | 7.09           | St    |
| MKHP-24-C3-112A | 1 1/2" | 3.35 | 3.94     | 4.88 | 4.06 | 1.97 | 0.65 | 0.67 | 12.05 | 7.76           | St    |
| MKHP-32-C3-112A | 2"     | 3.94 | 4.65     | 5.43 | 4.61 | 2.32 | 0.65 | 0.67 | 12.05 | 8.31           | St    |
| MKHP-20-C6-112A | 1 1/4" | 3.15 | 3.19     | 4.21 | 3.39 | 1.59 | 0.65 | 0.67 | 12.05 | 7.09           | St    |
| MKHP-24-C6-112A | 1 1/2" | 3.35 | 3.94     | 4.88 | 4.06 | 1.97 | 0.65 | 0.67 | 12.05 | 7.76           | St    |
| MKHP-32-C6-112A | 2"     | 3.94 | 4.65     | 5.43 | 4.61 | 2.32 | 0.65 | 0.67 | 12.05 | 8.31           | St    |

\*Add "-LD" to the part number for locking device

### CONNECTION TYPE

#### ISO 6162-1

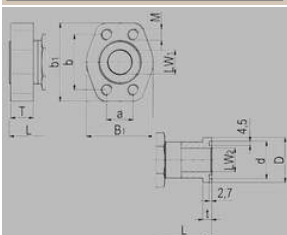


### DIMENSIONS

| TYPE            | LW <sub>1</sub> | LW <sub>2</sub> | L    | B <sub>1</sub> | b <sub>1</sub> | T    | a    | b    | M <sup>(1)</sup> | d    | D    | t    | Weight<br>(Kg) | PR<br>[psi] |
|-----------------|-----------------|-----------------|------|----------------|----------------|------|------|------|------------------|------|------|------|----------------|-------------|
| MKHP-20-C3-112A | 1.26            | 1.18            | 7.13 | 2.68           | 3.11           | 0.63 | 1.19 | 2.31 | M10              | 1.76 | 2.00 | 0.32 | 12.94          | 4000        |
| MKHP-24-C3-112A | 1.50            | 1.50            | 8.03 | 3.07           | 3.66           | 0.63 | 1.41 | 2.75 | M12              | 2.13 | 2.37 | 0.32 | 19.45          | 3000        |
| MKHP-32-C3-112A | 1.89            | 1.89            | 8.43 | 3.54           | 4.02           | 0.63 | 1.69 | 3.06 | M12              | 2.50 | 2.81 | 0.32 | 31.53          | 3000        |

### CONNECTION TYPE

#### ISO 6162-2

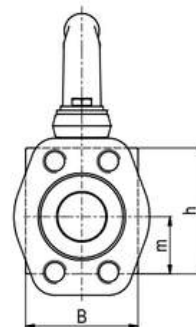
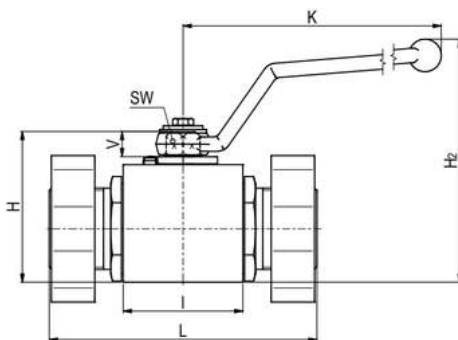


### DIMENSIONS

| TYPE            | LW <sub>1</sub> | LW <sub>2</sub> | L     | B <sub>1</sub> | b <sub>1</sub> | T    | a    | b    | M <sup>(1)</sup> | d    | D    | t    | Weight<br>(Kg) | PR<br>[psi] |
|-----------------|-----------------|-----------------|-------|----------------|----------------|------|------|------|------------------|------|------|------|----------------|-------------|
| MKHP-20-C6-112A | 1.26            | 1.18            | 7.80  | 3.07           | 3.74           | 1.06 | 1.25 | 2.63 | M12              | 1.76 | 2.13 | 0.41 | 13.49          | 6000        |
| MKHP-24-C6-112A | 1.50            | 1.50            | 9.02  | 3.70           | 4.41           | 1.18 | 1.44 | 3.13 | M16              | 2.13 | 2.50 | 0.50 | 20.48          | 6000        |
| MKHP-32-C6-112A | 1.89            | 1.89            | 10.08 | 4.49           | 5.28           | 1.38 | 1.75 | 3.81 | M20              | 2.50 | 3.13 | 0.50 | 33.82          | 6000        |

**BKH SAE - COMPANION (FLAT FACE ) X  
COMPANION (FLAT FACE ) CODE 61/62 STEEL**

**BALL VALVES**



**ACCESSORIES ON REQUEST**

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

**MATERIAL CODE DESCRIPTION**

| Materials   | 112A         |
|-------------|--------------|
| Body        | Steel        |
| Ball        | Steel        |
| Stem        | Steel        |
| Ball Seats  | POM          |
| O-Rings     | NBR          |
| Tmin / Tmax | -4°F / 212°F |

**AVAILABLE SIZES**

**1/2" to 1" (Dash Size 8-16)**

**CONNECTIONS**

**ISO 61-1, ISO 62-2**

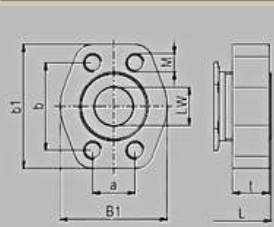
**GENERAL DIMENSIONS**

| TYPE           | SIZE | I    | B    | H    | h    | m    | V    | SW   | K    | H <sub>2</sub> | Handle |
|----------------|------|------|------|------|------|------|------|------|------|----------------|--------|
| BKH-8-F3-112A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | 3.50           | Zn     |
| BKH-12-F3-112A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 6.73 | 5.00           | St     |
| BKH-16-F3-112A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 6.73 | 5.31           | St     |
| BKH-8-F6-112A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | 3.50           | Zn     |
| BKH-12-F6-112A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 6.73 | 5.00           | St     |
| BKH-16-F6-112A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 6.73 | 5.31           | St     |

\*Add "-LD" to the part number for locking device

**CONNECTION TYPE**

**ISO 61-1**

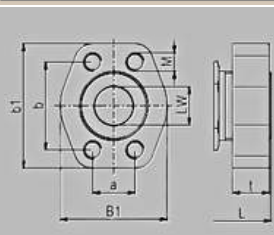


**DIMENSIONS**

| TYPE           | LW   | L    | B <sub>1</sub> | b <sub>1</sub> | t    | a    | b    | M         | Weight (lb) | Pressure Rating (PSI) |
|----------------|------|------|----------------|----------------|------|------|------|-----------|-------------|-----------------------|
| BKH-8-F3-112A  | 0.51 | 4.72 | 1.89           | 2.20           | 0.51 | 0.69 | 1.50 | 5/16" UNC | 3.31        | 5075                  |
| BKH-12-F3-112A | 0.79 | 5.35 | 1.97           | 2.56           | 0.55 | 0.87 | 1.87 | 3/8" UNC  | 6.62        | 5075                  |
| BKH-16-F3-112A | 0.98 | 5.83 | 2.36           | 2.76           | 0.63 | 1.03 | 2.06 | 3/8" UNC  | 9.92        | 4650                  |

**CONNECTION TYPE**

**ISO 62-2**



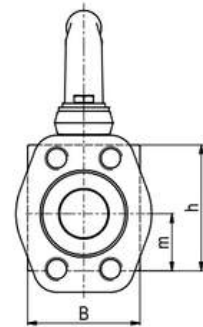
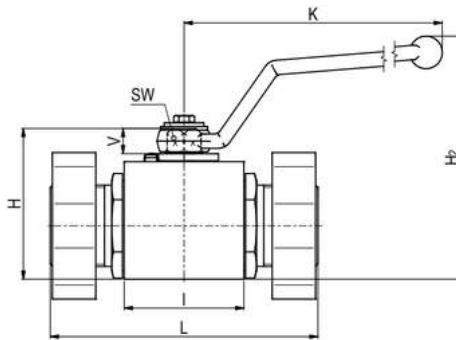
**DIMENSIONS**

| TYPE           | LW   | L    | B <sub>1</sub> | b <sub>1</sub> | t    | a    | b    | M         | Weight (lb) | Pressure Rating (PSI) |
|----------------|------|------|----------------|----------------|------|------|------|-----------|-------------|-----------------------|
| BKH-8-F6-112A  | 0.51 | 4.72 | 1.89           | 2.20           | 0.63 | 0.72 | 1.59 | 5/16" UNC | 3.31        | 6000                  |
| BKH-12-F6-112A | 0.79 | 5.35 | 2.36           | 2.80           | 0.75 | 0.94 | 2.00 | 3/8" UNC  | 6.06        | 6000                  |
| BKH-16-F6-112A | 0.98 | 5.83 | 2.76           | 3.19           | 0.94 | 1.09 | 2.25 | 7/16" UNC | 8.38        | 5075                  |

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**BKH SAE - COMPANION (FLAT FACE) X COMPANION  
(FLAT FACE) CODE 61/62 STAINLESS STEEL**

**BALL VALVES**



**ACCESSORIES ON REQUEST**

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

**MATERIAL CODE DESCRIPTION**

| Materials   | 442A            |
|-------------|-----------------|
| Body        | Stainless Steel |
| Ball        | Stainless Steel |
| Stem        | Stainless Steel |
| Ball Seats  | POM             |
| O-Rings     | NBR             |
| Tmin / Tmax | -22°F / 212°F   |

**AVAILABLE SIZES**

**1/2" to 1" (Dash Size 8-16)**

**CONNECTIONS**

**ISO 61-1, ISO 62-2**

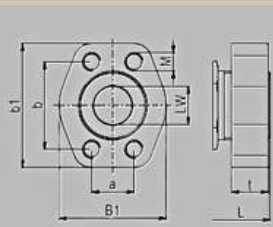
**GENERAL DIMENSIONS**

| TYPE           | SIZE | I    | B    | H    | h    | m    | V    | SW   | K    | H <sub>2</sub> | Handle |
|----------------|------|------|------|------|------|------|------|------|------|----------------|--------|
| BKH-8-F3-442A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | 3.50           | Zn     |
| BKH-12-F3-442A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 6.73 | 5.00           | St     |
| BKH-16-F3-442A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 6.73 | 5.31           | St     |
| BKH-8-F6-442A  | 1/2" | 1.89 | 1.38 | 2.13 | 1.57 | 0.75 | 0.43 | 0.35 | 4.53 | 3.50           | Zn     |
| BKH-12-F6-442A | 3/4" | 2.44 | 1.93 | 2.95 | 2.24 | 0.96 | 0.55 | 0.55 | 6.73 | 5.00           | St     |
| BKH-16-F6-442A | 1"   | 2.60 | 2.28 | 3.27 | 2.56 | 1.16 | 0.55 | 0.55 | 6.73 | 5.31           | St     |

\*Add "-LD" to the part number for locking device

**CONNECTION TYPE**

**ISO 61-1**

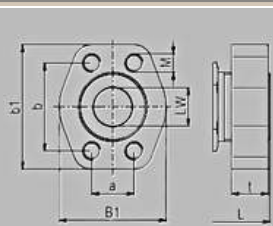


**DIMENSIONS**

| TYPE           | LW   | L    | B <sub>1</sub> | b <sub>1</sub> | t    | a    | b    | M         | Weight (lb) | Pressure Rating (PSI) |
|----------------|------|------|----------------|----------------|------|------|------|-----------|-------------|-----------------------|
| BKH-8-F3-442A  | 0.51 | 4.72 | 1.89           | 2.20           | 0.51 | 0.69 | 1.50 | 5/16" UNC | 3.31        | 5000                  |
| BKH-12-F3-442A | 0.79 | 5.35 | 1.97           | 2.56           | 0.55 | 0.87 | 1.87 | 3/8" UNC  | 6.62        | 5000                  |
| BKH-16-F3-442A | 0.98 | 5.83 | 2.36           | 2.76           | 0.63 | 1.03 | 2.06 | 3/8" UNC  | 9.92        | 4600                  |

**CONNECTION TYPE**

**ISO 62-2**



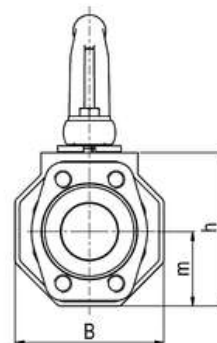
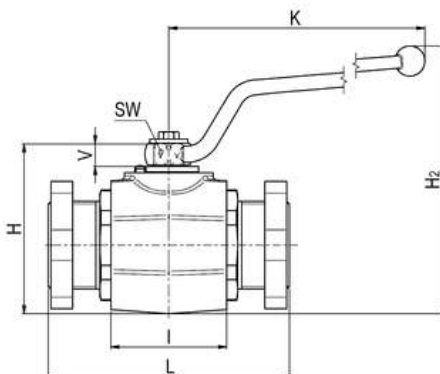
**DIMENSIONS**

| TYPE           | LW   | L    | B <sub>1</sub> | b <sub>1</sub> | t    | a    | b    | M         | Weight (lb) | Pressure Rating (PSI) |
|----------------|------|------|----------------|----------------|------|------|------|-----------|-------------|-----------------------|
| BKH-8-F6-442A  | 0.51 | 4.72 | 1.89           | 2.20           | 0.63 | 0.72 | 1.59 | 5/16" UNC | 3.31        | 6000                  |
| BKH-12-F6-442A | 0.79 | 5.35 | 2.36           | 2.80           | 0.75 | 0.94 | 2.00 | 3/8" UNC  | 6.06        | 5000                  |
| BKH-16-F6-442A | 0.98 | 5.83 | 2.76           | 3.19           | 0.94 | 1.09 | 2.25 | 7/16" UNC | 8.38        | 5000                  |

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# MKHP SAE - COMPANION (FLAT FACE) X COMPANION (FLAT FACE) CODE 61/62

## BALL VALVES



### ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

### MATERIAL CODE DESCRIPTION

| Materials   | 112A         |
|-------------|--------------|
| Body        | Steel        |
| Ball        | Steel        |
| Stem        | Steel        |
| Ball Seats  | POM          |
| O-Rings     | NBR          |
| Tmin / Tmax | -4°F / 212°F |

### AVAILABLE SIZES

1 1/4" to 2 1/2" (Dash Size 20-32)

### CONNECTIONS

ISO 6162-1, ISO 6162-2

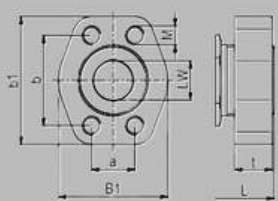
### GENERAL DIMENSIONS

| TYPE            | I    | B<br>8Kt | H    | h    | m    | V    | SW   | K     | H <sub>2</sub> | Lever |
|-----------------|------|----------|------|------|------|------|------|-------|----------------|-------|
| MKHP-20-F3-112A | 3.15 | 3.19     | 4.21 | 3.39 | 1.59 | 0.65 | 0.67 | 12.05 | 7.09           | St    |
| MKHP-24-F3-112A | 3.35 | 3.94     | 4.88 | 4.06 | 1.97 | 0.65 | 0.67 | 12.05 | 7.76           | St    |
| MKHP-32-F3-112A | 3.94 | 4.65     | 5.43 | 4.61 | 2.32 | 0.65 | 0.67 | 12.05 | 8.31           | St    |
| MKHP-20-F6-112A | 3.15 | 3.19     | 4.21 | 3.39 | 1.59 | 0.65 | 0.67 | 12.05 | 7.09           | St    |
| MKHP-24-F6-112A | 3.35 | 3.94     | 4.88 | 4.06 | 1.97 | 0.65 | 0.67 | 12.05 | 7.76           | St    |
| MKHP-32-F6-112A | 3.94 | 4.65     | 5.43 | 4.61 | 2.32 | 0.65 | 0.67 | 12.05 | 8.31           | St    |

\*Add "-LD" to the part number for locking device

### CONNECTION TYPE

#### ISO 6162-1

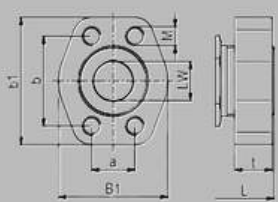


### DIMENSIONS

| TYPE            | LW   | L    | B <sub>1</sub> | b <sub>1</sub> | t    | a    | b    | M         | Weight<br>(Kg) | PR [psi] |
|-----------------|------|------|----------------|----------------|------|------|------|-----------|----------------|----------|
| MKHP-20-F3-112A | 1.26 | 6.77 | 2.68           | 3.11           | 0.63 | 1.19 | 2.31 | 7/16" UNC | 16.58          | 4050     |
| MKHP-24-F3-112A | 1.50 | 6.97 | 3.07           | 3.66           | 0.63 | 1.41 | 2.75 | 1/2" UNC  | 24.45          | 3000     |
| MKHP-32-F3-112A | 1.89 | 7.72 | 3.54           | 4.02           | 0.63 | 1.69 | 3.06 | 1/2" UNC  | 42.53          | 3000     |

### CONNECTION TYPE

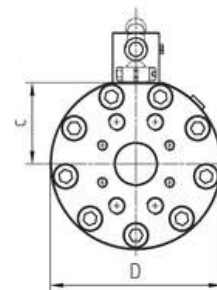
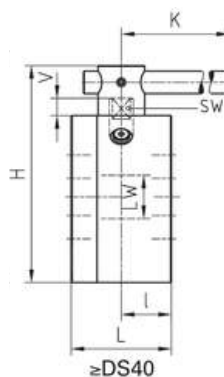
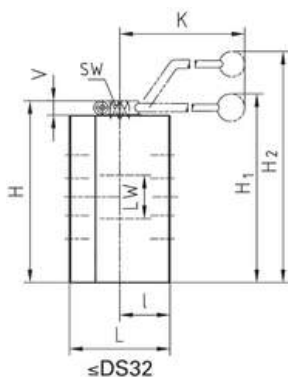
#### ISO 6162-2



### DIMENSIONS

| TYPE            | LW   | L    | B <sub>1</sub> | b <sub>1</sub> | t    | a    | b    | M        | Weight<br>(Kg) | PR [psi] |
|-----------------|------|------|----------------|----------------|------|------|------|----------|----------------|----------|
| MKHP-20-F6-112A | 1.26 | 6.77 | 3.07           | 3.74           | 1.06 | 1.25 | 2.63 | 1/2" UNC | 16.58          | 6000     |
| MKHP-24-F6-112A | 1.50 | 6.97 | 3.70           | 4.41           | 1.18 | 1.44 | 3.13 | 5/8" UNC | 24.45          | 6000     |
| MKHP-32-F6-112A | 1.89 | 7.72 | 4.49           | 5.28           | 1.38 | 1.75 | 3.81 | 3/4" UNC | 42.53          | 6000     |

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#### AVAILABLE SIZES

5/8" to 3" (Dash Size 10-48)

#### CONNECTIONS

ISO 6162-1 and -2 (double flange pattern)

#### ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

#### MATERIAL CODE DESCRIPTION

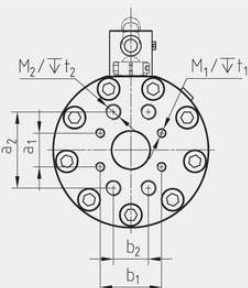
| Materials   | DN15-50<br>212A | DN15-50<br>2128 | DN65-80<br>282A | DN65-80<br>2828 |
|-------------|-----------------|-----------------|-----------------|-----------------|
| Body        | Steel           | Steel           | Steel           | Steel           |
| Ball        | Steel           | Steel           | Steel           | Steel           |
| Stem        | Steel           | Steel           | Duplex          | Duplex          |
| Ball Seats  | POM             | POM             | POM             | POM             |
| O-Rings     | NBR             | FPM             | NBR             | FPM             |
| Tmin / Tmax | 14°F / 212°F    | 14°F / 212°F    | 14°F / 212°F    | 14°F / 212°F    |

#### GENERAL DIMENSIONS

| TYPE                | LW   | L    | I    | D     | H     | c    | V    | K     | SW   | H <sub>1</sub> | H <sub>2</sub> | HANDLE            |
|---------------------|------|------|------|-------|-------|------|------|-------|------|----------------|----------------|-------------------|
| KH-8                | 0.59 | 2.95 | 1.38 | 3.46  | 3.46  | 1.22 | 0.51 | 6.30  | 0.47 | -              | 5.20           | Al                |
| KH-12               | 0.79 | 3.15 | 1.38 | 3.86  | 3.94  | 1.44 | 0.55 | 7.87  | 0.55 | 4.06           | -              | Zn                |
| KH-16               | 0.98 | 3.46 | 1.50 | 4.65  | 4.45  | 1.56 | 0.55 | 7.87  | 0.55 | 4.57           | -              | Zn                |
| KH-20               | 1.26 | 3.94 | 1.97 | 5.71  | 6.22  | 2.68 | 0.67 | 12.60 | 0.67 | 6.57           | -              | Al                |
| KH-24               | 1.50 | 4.33 | 2.17 | 6.50  | 7.01  | 3.07 | 0.67 | 12.60 | 0.67 | 7.36           | -              | Al                |
| KH-32               | 1.89 | 4.57 | 2.28 | 7.80  | 8.27  | 3.70 | 0.67 | 12.60 | 0.67 | 8.62           | -              | Al                |
| KH-40               | 2.48 | 6.69 | 2.95 | 8.58  | 10.83 | 3.94 | 0.79 | 23.62 | 0.63 | -              | -              | St <sup>(1)</sup> |
| KH-48 (PR1450)      | 2.99 | 6.69 | 2.76 | 9.76  | 12.09 | 4.37 | 1.02 | 23.62 | 0.75 | -              | -              | St <sup>(1)</sup> |
| KH-48 (PR2300/6000) | 2.99 | 6.69 | 3.11 | 10.16 | 12.40 | 4.51 | 1.02 | 23.62 | 0.75 | -              | -              | St <sup>(1)</sup> |

Please note the pressure ratings of the connection flanges!

<sup>(1)</sup> Handle must be fixed centrally during operation. In case of vibration the handle may otherwise operate the valve by itself.

| CONNECTION TYPE                                                                  | DIMENSIONS |                |                |                |                |                |                |                |                |                | ORDER CODE PER MATERIAL COMBINATION |                |                |
|----------------------------------------------------------------------------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------------------------|----------------|----------------|
| ISO 6162-1 and -2<br>(double flange pattern)                                     | Type       | a <sub>1</sub> | b <sub>1</sub> | M <sub>1</sub> | t <sub>1</sub> | a <sub>2</sub> | b <sub>2</sub> | M <sub>2</sub> | t <sub>2</sub> | Weight<br>(lb) | Pressure<br>Rating<br>(psi)         | 212A<br>(282A) | 2128<br>(2828) |
|  | KH-8-FDM   | 0.69           | 1.50           | M8             | 0.71           | 1.59           | 0.72           | M8             | 0.71           | 6.53           | 5000/6000                           | 44655*         | 45545*         |
|                                                                                  | KH-12-FDM  | 0.87           | 1.87           | M10            | 0.71           | 2.00           | 0.94           | M10            | 0.71           | 9.26           | 5000/6000                           | 44804*         | 45546*         |
|                                                                                  | KH-16-FDM  | 1.09           | 2.25           | M12            | 0.79           | 2.06           | 1.03           | M10            | 0.79           | 13.23          | 4600/6000                           | 44632*         | 45547*         |
|                                                                                  | KH-20-FDM  | 1.19           | 2.31           | M12            | 0.79           | 2.63           | 1.25           | M14            | 0.87           | 25.69          | 3000/6000                           | 45548*         | 45549*         |
|                                                                                  | KH-20-FDM  | 1.19           | 2.31           | M10            | 0.79           | 2.63           | 1.25           | M12            | 0.87           | 25.80          | 4000/6000                           | 44826*         | 45550*         |
|                                                                                  | KH-24-FDM  | 1.41           | 2.75           | M12            | 0.83           | 3.13           | 1.44           | M16            | 1.06           | 37.71          | 3000/6000                           | 45212*         | 45551*         |
|                                                                                  | KH-32-FDM  | 1.69           | 3.06           | M12            | 0.79           | 3.81           | 1.75           | M20            | 1.10           | 54.24          | 3000/6000                           | 44710*         | 21845*         |
|                                                                                  | KH-40-FDM  | 2.31           | 4.87           | M24            | 1.61           | 3.50           | 2.00           | M12            | 0.75           | 97.90          | 2500/6000                           | 41440          | 46204          |
|                                                                                  | KH-48-FDM  | 2.81           | 6.00           | M30            | 1.85           | 4.19           | 2.44           | M16            | 0.94           | 121.05         | 1450                                | 46376          | 46205          |
|                                                                                  | KH-48-FDM  | 2.81           | 6.00           | M30            | 1.85           | 4.19           | 2.44           | M16            | 0.94           | 133.18         | 2300/6000                           | 58191          | 58107          |
|                                                                                  |            |                |                |                |                |                |                |                |                |                |                                     |                |                |
|                                                                                  | KH-8-FD    | 0.69           | 1.50           | 5/16" UNC      | 0.71           | 1.59           | 0.72           | 5/16" UNC      | 0.71           | 6.53           | 5000/6000                           | 46206          | 25414          |
|                                                                                  | KH-12-FD   | 0.87           | 1.87           | 3/8" UNC       | 0.71           | 2.00           | 0.94           | 3/8" UNC       | 0.71           | 9.26           | 5000/6000                           | 46207          | 46212          |
|                                                                                  | KH-16-FD   | 1.09           | 2.25           | 7/16" UNC      | 0.79           | 2.06           | 1.03           | 3/8" UNC       | 0.79           | 13.23          | 4600/6000                           | 46208          | 46213          |
|                                                                                  | KH-20-FD   | 1.19           | 2.31           | 7/16" UNC      | 0.87           | 2.63           | 1.25           | 1/2" UNC       | 0.87           | 25.80          | 4000/6000                           | 46209          | 46214          |
|                                                                                  | KH-24-FD   | 1.41           | 2.75           | 1/2" UNC       | 0.79           | 3.13           | 1.44           | 5/8" UNC       | 0.94           | 37.71          | 3000/6000                           | 46210          | 46215          |
|                                                                                  | KH-32-FD   | 1.69           | 3.06           | 1/2" UNC       | 0.79           | 3.81           | 1.75           | 3/4" UNC       | 1.10           | 54.24          | 3000/6000                           | 46211          | 46216          |

<sup>(2)</sup> This version is not to be used for new designs.

\*Article usually in stock.



We stamp the valves with the flange pressure rating in accordance with ISO 6162-1/2 as stated above.  
 Nevertheless the valve is suitable for usage up to 3000/6000 psi if higher-rated flanges are used.

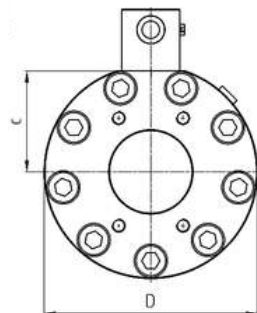
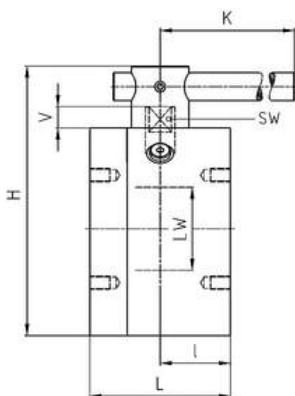
## BYPASS OPTION



When larger ball valves have to be activated at full differential pressure, a smaller ball valve can be used before activation in order to equalize the pressure.

We combine the bypass within the flange valve body to provide less leakage points compared to a piped solution.

- Both main and bypass valve can be offered with locking device or any other accessory like limit switches or actuators
- Bypass is a standard manifold mounting PKH valve which can be easily maintained or replaced
- Bypass manifold mounting valve provides bubble tight shut off



#### AVAILABLE SIZES

2 1/2" to 5" (Dash Size 40-80)

#### CONNECTIONS

ISO 6162-1 (single flange pattern)

#### ACCESSORIES ON REQUEST

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

#### MATERIAL CODE DESCRIPTION

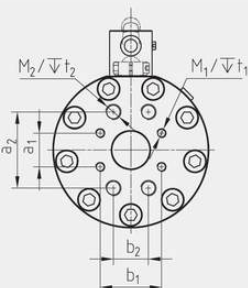
| Materials   | 282A         | 2828         |
|-------------|--------------|--------------|
| Body        | Steel        | Steel        |
| Ball        | Steel        | Steel        |
| Stem        | Duplex       | Duplex       |
| Ball Seats  | POM          | POM          |
| O-Rings     | NBR          | FPM          |
| Tmin / Tmax | 14°F / 212°F | 14°F / 212°F |

#### GENERAL DIMENSIONS

| TYPE           | LW   | L    | I    | D     | H     | c    | V    | K     | SW   | HANDLE            |
|----------------|------|------|------|-------|-------|------|------|-------|------|-------------------|
| KH-40          | 2.48 | 5.91 | 2.95 | 7.80  | 10.20 | 3.70 | 0.79 | 23.62 | 0.63 | St <sup>(1)</sup> |
| KH-48 (PR1450) | 2.99 | 5.51 | 2.76 | 8.27  | 10.91 | 3.94 | 1.02 | 23.62 | 0.75 | St <sup>(1)</sup> |
| KH-48 (PR2300) | 2.99 | 5.91 | 3.11 | 8.58  | 11.18 | 4.07 | 1.02 | 23.62 | 0.75 | St <sup>(1)</sup> |
| KH-64          | 3.94 | 6.69 | 3.35 | 10.16 | 12.83 | 4.80 | 1.06 | 35.43 | 0.94 | St <sup>(1)</sup> |
| KH-80          | 4.65 | 8.27 | 4.13 | 11.61 | 14.84 | 5.51 | 1.30 | 35.43 | 1.42 | St <sup>(1)</sup> |

Please note the pressure ratings of the connection flanges!

<sup>(1)</sup> Handle must be fixed centrally during operation. In case of vibration the handle may otherwise operate the valve by itself.

| CONNECTION TYPE                                                                  | DIMENSIONS |      |      |          |      |                | ORDER CODE PER MATERIAL COMBINATION |       |       |
|----------------------------------------------------------------------------------|------------|------|------|----------|------|----------------|-------------------------------------|-------|-------|
| ISO 6162-1<br>(single flange pattern)                                            | Type       | a    | b    | M        | t    | Weight<br>(lb) | Pressure<br>Rating (psi)            | 282A  | 2828  |
|  | KH-40-F3M  | 2.00 | 3.50 | M12      | 0.75 | 73.87          | 2500                                | 32104 | 25933 |
|                                                                                  | KH-48-F3M  | 2.44 | 4.19 | M16      | 0.94 | 73.87          | 1450                                | 30721 | 25934 |
|                                                                                  | KH-48-F3M  | 2.44 | 4.19 | M16      | 0.94 | 86.88          | 2300                                | 58097 | 58098 |
|                                                                                  | KH-64-F3M  | 3.06 | 5.13 | M16      | 0.94 | 133.40         | 500                                 | 30722 | 25935 |
|                                                                                  | KH-80-F3M  | 3.63 | 6.00 | M16      | 1.18 | 210.58         | 500                                 | 14830 | 25936 |
|                                                                                  | KH-40-F3   | 2.00 | 3.50 | 1/2" UNC | 0.75 | 73.87          | 2500                                | 21886 | 10702 |
|                                                                                  | KH-48-F3   | 2.44 | 4.19 | 5/8" UNC | 0.94 | 73.87          | 1450                                | 27427 | 10701 |
|                                                                                  | KH-48-F3   | 2.44 | 4.19 | 5/8" UNC | 0.94 | 86.88          | 2300                                | 58101 | 58102 |
|                                                                                  | KH-64-F3   | 3.06 | 5.13 | 5/8" UNC | 0.94 | 133.40         | 500                                 | 27428 | 10700 |
|                                                                                  | KH-80-F3   | 3.63 | 6.00 | 5/8" UNC | 1.18 | 210.58         | 500                                 | 37954 | 10699 |



We stamp the valves with the flange pressure rating in accordance with ISO 6162-1 as stated above.  
Nevertheless the valve is suitable for usage up to 3000 psi if higher-rated flanges are used.

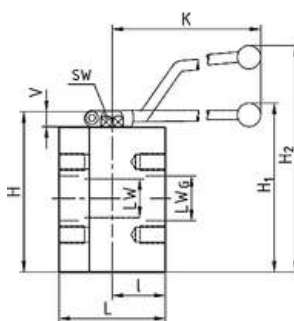
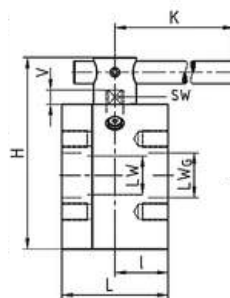
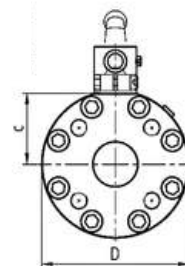
## BYPASS OPTION



When larger ball valves have to be activated at full differential pressure, a smaller ball valve can be used before activation in order to equalize the pressure.

We combine the bypass within the flange valve body to provide less leakage points compared to a piped solution.

- Both main and bypass valve can be offered with locking device or any other accessory like limit switches or actuators
- Bypass is a standard manifold mounting PKH valve which can be easily maintained or replaced
- Bypass manifold mounting valve provides bubble tight shut off


 $\leq$ DS35

 $\geq$ DS40

**AVAILABLE SIZES**

1/2" to 8" (Dash Size 8-128)

**ACCESSORIES ON REQUEST**

- Locking devices
- Actuator
- Mounting holes
- Positions switches
- Combinations
- Detent

**CONNECTIONS**

ISO 61-1 (ISO250), ISO 62-2 (ISO400), ISO320 (not part of ISO 6164)

**MATERIAL CODE DESCRIPTION**

| Materials   | DN15-50<br>212A | DN15-50<br>2128 | DN65-200<br>282A | DN65-200<br>2828 |
|-------------|-----------------|-----------------|------------------|------------------|
| Body        | Steel           | Steel           | Steel            | Steel            |
| Ball        | Steel           | Steel           | Steel            | Steel            |
| Stem        | Steel           | Steel           | Duplex           | Duplex           |
| Ball Seats  | POM             | POM             | POM              | POM              |
| O-Rings     | NBR             | FPM             | NBR              | FPM              |
| Tmin / Tmax | 14°F / 212°F    | 14°F / 212°F    | 14°F / 212°F     | 14°F / 212°F     |

**GENERAL DIMENSION ISO 6164-4 (ISO250)**

| TYPE  | LW   | LW <sub>G</sub> | L    | I    | D    | H     | c    | V    | K     | SW   | H <sub>1</sub> | H <sub>2</sub> | HANDLE            |
|-------|------|-----------------|------|------|------|-------|------|------|-------|------|----------------|----------------|-------------------|
| KH-8  | 0.59 | 0.59            | 3.35 | 1.77 | 3.07 | 3.27  | 1.22 | 0.51 | 6.30  | 0.47 | -              | 5.00           | Al                |
| KH-12 | 0.79 | 0.79            | 3.46 | 1.50 | 4.69 | 4.33  | 1.44 | 0.55 | 7.87  | 0.55 | 4.49           | -              | Zn                |
| KH-16 | 0.98 | 0.98            | 3.46 | 1.50 | 4.96 | 4.61  | 1.56 | 0.55 | 7.87  | 0.55 | 4.72           | -              | Zn                |
| KH-20 | 1.26 | 1.26            | 4.13 | 1.97 | 5.71 | 6.22  | 2.68 | 0.67 | 12.60 | 0.67 | 6.57           | -              | Al                |
| KH-24 | 1.50 | 1.50            | 4.33 | 2.17 | 6.50 | 7.01  | 3.07 | 0.67 | 12.60 | 0.67 | 7.36           | -              | Al                |
| KH-32 | 1.89 | 1.85            | 4.57 | 2.28 | 7.80 | 8.27  | 3.70 | 0.67 | 12.60 | 0.67 | 8.62           | -              | Al                |
| KH-36 | 1.89 | 2.28            | 4.84 | 2.28 | 7.80 | 8.27  | 3.70 | 0.67 | 12.60 | 0.67 | 8.62           | -              | Al                |
| KH-40 | 2.56 | 2.76            | 5.91 | 2.95 | 8.19 | 10.63 | 3.94 | 0.79 | 23.62 | 0.63 | -              | -              | St <sup>(1)</sup> |

**GENERAL DIMENSION ISO 6164-4 (ISO250)**

| TYPE           | LW   | LW <sub>G</sub> | L    | I    | D     | H     | c    | V    | K     | SW   | H <sub>1</sub> | H <sub>2</sub> | HANDLE            |
|----------------|------|-----------------|------|------|-------|-------|------|------|-------|------|----------------|----------------|-------------------|
| KH-8           | 0.59 | 0.55            | 3.35 | 1.77 | 3.07  | 3.27  | 1.22 | 0.51 | 6.30  | 0.47 | -              | 5.00           | Al                |
| KH-12          | 0.79 | 0.71            | 3.46 | 1.50 | 4.69  | 4.33  | 1.44 | 0.55 | 7.87  | 0.55 | 4.49           | -              | Zn                |
| KH-16          | 0.98 | 0.87            | 3.46 | 1.50 | 4.96  | 4.61  | 1.56 | 0.55 | 7.87  | 0.55 | 4.72           | -              | Zn                |
| KH-20          | 1.26 | 1.14            | 4.13 | 1.97 | 5.71  | 6.22  | 2.68 | 0.67 | 12.60 | 0.67 | 6.57           | -              | Al                |
| KH-24          | 1.50 | 1.38            | 4.33 | 2.17 | 6.50  | 7.01  | 3.07 | 0.67 | 12.60 | 0.67 | 7.36           | -              | Al                |
| KH-32          | 1.89 | 1.69            | 4.84 | 2.28 | 7.80  | 8.27  | 3.70 | 0.67 | 12.60 | 0.67 | 8.62           | -              | Al                |
| KH-36          | 1.89 | 2.09            | 4.84 | 2.28 | 7.80  | 8.27  | 3.70 | 0.67 | 12.60 | 0.67 | 8.62           | -              | Al                |
| KH-40          | 2.56 | 2.28            | 5.91 | 2.95 | 8.82  | 11.26 | 4.25 | 0.79 | 23.62 | 0.63 | -              | -              | St <sup>(1)</sup> |
| KH-40          | 2.56 | 2.48            | 5.91 | 2.95 | 8.82  | 11.26 | 4.25 | 0.79 | 23.62 | 0.63 | -              | -              | St <sup>(1)</sup> |
| KH-48 (PR1450) | 2.99 | 2.91            | 5.51 | 2.76 | 8.98  | 11.54 | 4.21 | 1.02 | 23.62 | 0.75 | -              | -              | St <sup>(1)</sup> |
| KH-48 (PR5800) | 2.99 | 2.99            | 6.69 | 3.07 | 10.16 | 12.40 | 4.21 | 1.02 | 23.62 | 0.75 | -              | -              | St <sup>(1)</sup> |

Please note the pressure ratings of the connection flanges!

 Trilex Fluid Power • (CAN) 905-545-2038 • (USA) 716-283-8781  
 email: sales@trilexfluidpower.com • web: www.trilexfluidpower.com

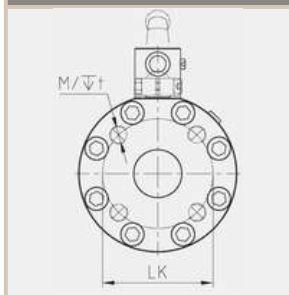
<sup>(1)</sup> Handle must be fixed centrally during operation. In case of vibration the handle may otherwise operate the valve by itself.

**GENERAL DIMENSION ISO 320 (not part of ISO 6164)**

| TYPE           | LW         | LW <sub>G</sub> | L                                | I    | D     | H     | c    | V    | K     | SW   | H <sub>1</sub> | H <sub>2</sub> | HANDLE            |
|----------------|------------|-----------------|----------------------------------|------|-------|-------|------|------|-------|------|----------------|----------------|-------------------|
| KH-10          | ON REQUEST |                 |                                  |      |       |       |      |      |       |      |                |                |                   |
| KH-12          | 0.79       | 0.79            | 3.46                             | 1.50 | 4.69  | 4.33  | 1.44 | 0.55 | 7.87  | 0.55 | 4.49           | -              | Zn                |
| KH-16          | 0.98       | 0.98            | 3.46                             | 1.50 | 4.96  | 4.61  | 1.56 | 0.55 | 7.87  | 0.55 | 4.72           | -              | Zn                |
| KH-20          | 1.26       | 1.26            | 4.13                             | 1.97 | 5.71  | 6.22  | 2.68 | 0.67 | 12.60 | 0.67 | 6.57           | -              | Al                |
| KH-24          | 1.50       | 1.50            | 4.33                             | 2.17 | 6.50  | 7.01  | 3.07 | 0.67 | 12.60 | 0.67 | 7.36           | -              | Al                |
| KH-32          | 1.89       | 1.89            | 4.80                             | 2.28 | 7.80  | 8.27  | 3.70 | 0.67 | 12.60 | 0.67 | 8.62           | -              | Al                |
| KH-40          | 2.56       | 2.48            | 5.91                             | 2.95 | 8.19  | 10.63 | 3.94 | 0.79 | 23.62 | 0.63 | -              | -              | St <sup>(1)</sup> |
| KH-48 (PR1450) | 2.99       | 2.99            | 5.51                             | 2.76 | 8.46  | 10.98 | 3.94 | 1.02 | 23.62 | 0.75 | -              | -              | St <sup>(1)</sup> |
| KH-48 (PR5000) | 2.99       | 2.99            | REFER TO KH-DN80-ISO400 (PR5800) |      |       |       |      |      |       |      |                |                |                   |
| KH-64          | 3.94       | 3.94            | 7.87                             | 3.94 | 10.24 | 12.87 | 4.80 | 1.02 | 35.43 | 0.94 | -              | -              | St <sup>(1)</sup> |
| KH-80          | 4.65       | 4.65            | 9.06                             | 4.33 | 15.35 | 18.50 | 7.28 | 1.26 | 35.43 | 1.42 | -              | -              | St <sup>(1)</sup> |
| KH-96          | 5.91       | 5.91            | 11.22                            | 5.12 | 15.35 | 18.70 | 7.48 | 1.26 | 35.43 | 1.42 | -              | -              | St <sup>(1)</sup> |
| KH-128         | 7.56       | 7.87            | 14.88                            | 5.91 | 17.95 | 23.54 | 8.78 | 2.40 | 37.01 | 1.81 | -              | -              | St <sup>(1)</sup> |

Please note the pressure ratings of the connection flanges!

<sup>(1)</sup> Handle must be fixed centrally during operation. In case of vibration the handle may otherwise operate the valve by itself.

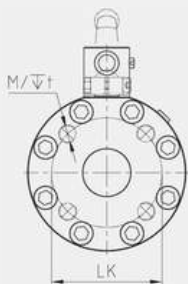
**CONNECTION TYPE**
**ISO 6164-1**

**DIMENSIONS**

| TYPE         | LK                  | M       | t    | WEIGHT (LB) |
|--------------|---------------------|---------|------|-------------|
| KH-8-ISO250  | 1.65 <sup>(1)</sup> | 4 x M8  | 0.63 | 6.39        |
| KH-12-ISO250 | 1.97                | 4 x M8  | 0.59 | 14.99       |
| KH-16-ISO250 | 2.44                | 4 x M10 | 0.79 | 15.88       |
| KH-20-ISO250 | 2.87                | 4 x M12 | 0.83 | 27.56       |
| KH-24-ISO250 | 3.35                | 4 x M16 | 0.96 | 36.60       |
| KH-32-ISO250 | 3.86                | 4 x M16 | 1.00 | 54.90       |
| KH-36-ISO250 | 4.65                | 4 x M20 | 1.30 | 58.65       |
| KH-40-ISO250 | 5.71                | 4 x M20 | 1.30 | 81.36       |

**ORDER CODE PER MATERIAL COMBINATION**

| PRESSURE RATING (PSI) | 212A (282A) | 2128 (2828) |
|-----------------------|-------------|-------------|
| 5000                  | 29452       | 37481       |
| 5000                  | 29453       | 37482       |
| 4500                  | 29455       | 37483       |
| 3600                  | 40654       | 37484       |
| 3600                  | 29538       | 37485       |
| 3600                  | 37839       | 37486       |
| 3600                  | 36011       | 37487       |
| 3600                  | 31638       | 37488       |

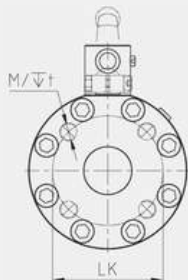
<sup>(1)</sup> Rotated by 45°

**CONNECTION TYPE**
**ISO 6164-2**

**DIMENSIONS**

| TYPE                  | LK                  | M       | t    | WEIGHT (LB) |
|-----------------------|---------------------|---------|------|-------------|
| KH-8-ISO400           | 1.65 <sup>(1)</sup> | 4 x M8  | 0.63 | 6.39        |
| KH-12-ISO400          | 1.97                | 4 x M8  | 0.59 | 14.99       |
| KH-16-ISO400          | 2.44                | 4 x M10 | 0.79 | 15.88       |
| KH-20-ISO400          | 2.87                | 4 x M12 | 0.83 | 27.56       |
| KH-24-ISO400          | 3.35                | 4 x M16 | 0.96 | 36.60       |
| KH-32-ISO400          | 3.86                | 4 x M16 | 1.00 | 54.90       |
| KH-36-ISO400          | 4.65                | 4 x M20 | 1.22 | 58.65       |
| KH-40-ISO400          | 5.71                | 4 x M24 | 1.48 | 93.78       |
| KH-44-ISO400          | 6.30                | 4 x M24 | 1.48 | 94.82       |
| KH-48-ISO400 (PR1450) | 6.89                | 4 x M30 | 1.38 | 112.46      |
| KH-48-ISO400 (PR5800) | 6.89                | 4 x M30 | 1.91 | 138.92      |

**ORDER CODE PER MATERIAL COMBINATION**

| PRESSURE RATING (PSI) | 212A (282A) | 2128 (2828) |
|-----------------------|-------------|-------------|
| -                     | 37842       | 37849       |
| 5800                  | 37843       | 37850       |
| 5800                  | 37844       | 37851       |
| 5800                  | 37845       | 37852       |
| 5800                  | 19556       | 37853       |
| 5800                  | 37846       | 37854       |
| 5800                  | 36010       | 37855       |
| 5800                  | 31493       | 15045       |
| 4500                  | 37847       | 37856       |
| 1450                  | 37848       | 37857       |
| 5800                  | 58109       | 58110       |

**CONNECTION TYPE**
**ISO 320  
(NOT PART OF ISO 6164)**

**DIMENSIONS**

| TYPE                  | LK    | M       | t          | WEIGHT (LB) |
|-----------------------|-------|---------|------------|-------------|
| KH-10-ISO320          | 2.13  | 4 x M10 | ON REQUEST |             |
| KH-12-ISO320          | 3.52  | 4 x M12 | 0.87       | 14.99       |
| KH-16-ISO320          | 2.83  | 4 x M12 | 0.79       | 15.88       |
| KH-20-ISO320          | 3.15  | 4 x M16 | 0.94       | 27.56       |
| KH-24-ISO320          | 3.86  | 4 x M16 | 0.98       | 36.60       |
| KH-32-ISO320          | 4.65  | 4 x M20 | 1.10       | 54.90       |
| KH-40-ISO320          | 5.71  | 4 x M24 | 1.42       | 79.38       |
| KH-48-ISO320 (PR1450) | 6.89  | 4 x M30 | 1.38       | 75.54       |
| KH-64-ISO320          | 7.87  | 8 x M24 | 1.42       | 154.35      |
| KH80-ISO320           | 9.65  | 8 x M30 | 1.77       | 460.85      |
| KH-96-ISO320          | 9.65  | 8 x M30 | 1.81       | 496.13      |
| KH-128-ISO320         | 12.40 | 8 x M36 | 2.17       | 870.98      |

**ORDER CODE PER MATERIAL COMBINATION**

| PRESSURE RATING (PSI) | 212A (282A) | 2128 (2828) |
|-----------------------|-------------|-------------|
| -                     | 37827       | 37830       |
| 5000                  | 37459       | 37463       |
| 5000                  | 37828       | 37831       |
| 5000                  | 37460       | 37464       |
| 5000                  | 37461       | 37465       |
| 5000                  | 37462       | 37466       |
| 5000                  | 19987       | 37467       |
| 1450                  | 16635       | 32093       |
| 5000                  | 34178       | 37468       |
| 5000                  | 37829       | 37832       |
| 5000                  | 45938       | 41962       |
| 5000                  | 41393       | 41965       |

<sup>(1)</sup> Rotated by 45°

**BYPASS OPTION**

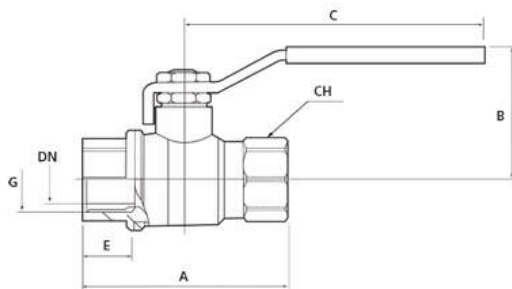

When larger ball valves have to be activated at full differential pressure, a smaller ball valve can be used before activation in order to equalize the pressure.

We combine the bypass within the flange valve body to provide less leakage points compared to a piped solution.

- Both main and bypass valve can be offered with locking device or any other accessory like limit switches or actuators
- Bypass is a standard manifold mounting PKH valve which can be maintained or replaced
- bypass manifold mounting valve provides bubble tight shut off

## LOW PRESSURE BRASS BALL VALVES

### BALL VALVES



### SPECIFICATIONS

- Full port
- Blow-out proof stem
- PTFE seats, seals, washer
- Chrome plated Brass ball
- Temp rated -22 °F to 366°F

### 171N SERIES - REGULAR HANDLE

| PART NUMBER  | SIZE   | THREAD SIZE | A    | B    | C    | E    | CH   | DH   | PSI |
|--------------|--------|-------------|------|------|------|------|------|------|-----|
| 171N-12-NPT  | 1/2"   | 1/2" NPFT   | 2.05 | 2.08 | 3.54 | 0.52 | 0.78 | 0.58 | 600 |
| 171N-34-NPT  | 3/4"   | 3/4" NPFT   | 2.36 | 2.30 | 3.78 | 0.56 | 1.20 | 0.74 | 600 |
| 171N-1-NPT   | 1"     | 1" NPFT     | 2.75 | 2.68 | 4.52 | 0.66 | 1.50 | 0.94 | 600 |
| 171N-114-NPT | 1 1/4" | 1 1/4" NPFT | 3.30 | 3.14 | 4.52 | 0.70 | 1.82 | 1.26 | 600 |
| 171N-112-NPT | 1 1/2" | 1 1/2" NPFT | 3.66 | 3.61 | 5.51 | 0.72 | 2.09 | 1.57 | 600 |
| 171N-2-NPT   | 2"     | 2" NPFT     | 4.18 | 3.68 | 5.51 | 0.74 | 2.12 | 1.97 | 600 |

\*Dimensions are inches

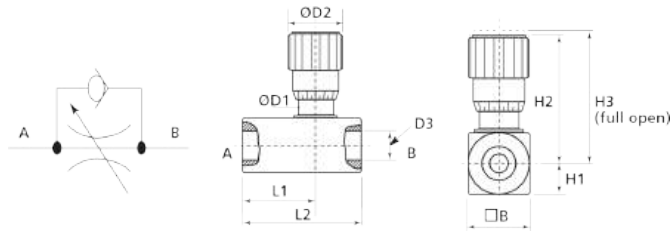
### 171N SERIES - LOCK HANDLE

| PART NUMBER     | SIZE   | THREAD SIZE | A    | B    | C    | E    | CH   | DH   | PSI |
|-----------------|--------|-------------|------|------|------|------|------|------|-----|
| 171N-14-NPT-LH  | 1/4"   | 1/4" NPFT   | 2.02 | 1.83 | 3.78 | 0.39 | 0.78 | 0.39 | 600 |
| 171N-38-NPT-LH  | 3/8"   | 3/8" NPFT   | 2.02 | 1.83 | 3.78 | 0.39 | 0.78 | 0.39 | 600 |
| 171N-12-NPT-LH  | 1/2"   | 1/2" NPFT   | 2.44 | 1.99 | 3.78 | 0.53 | 0.98 | 0.59 | 600 |
| 171N-34-NPT-LH  | 3/4"   | 3/4" NPFT   | 2.71 | 2.48 | 4.84 | 0.55 | 1.22 | 0.79 | 600 |
| 171N-1-NPT-LH   | 1"     | 1" NPFT     | 3.07 | 2.64 | 4.84 | 0.66 | 1.49 | 0.98 | 600 |
| 171N-114-NPT-LH | 1 1/4" | 1 1/4" NPFT | 3.42 | 3.15 | 5.94 | 0.68 | 1.88 | 1.29 | 600 |
| 171N-112-NPT-LH | 1 1/2" | 1 1/2" NPFT | 3.89 | 3.38 | 5.94 | 0.68 | 2.12 | 1.57 | 600 |
| 171N-2-NPT-LH   | 2"     | 2" NPFT     | 4.33 | 3.74 | 6.30 | 0.69 | 2.63 | 1.96 | 600 |

\*Dimensions are inches

## FLOW CONTROL AND NEEDLE VALVES

### BALL VALVES



#### SPECIFICATIONS

- Micrometer adjustment knob for accurate valve setting
- Rugged construction
- Carbon steel body with black oxide plating
- Zinc alloy handle
- Steel set screw
- Buna-O-Ring/PTFE stem packing

#### FLOW CONTROL VALVE

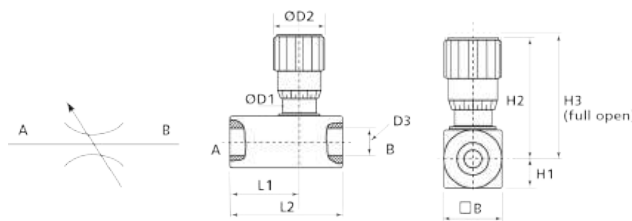
| SIZE   | PART #        | DIMENSIONS |      |      |             |      |      |      |      |      |          |
|--------|---------------|------------|------|------|-------------|------|------|------|------|------|----------|
|        |               | B          | D1   | D2   | D3          | H1   | H2   | H3   | L1   | L2   | WEIGHT   |
| 1/4"   | FCV2818-2     | 1.10       | 0.76 | 1.18 | 1/4" NPTF   | 0.55 | 2.41 | 2.67 | 1.54 | 2.52 | 0.90 lbs |
| 3/8"   | FCV2818-3     | 1.10       | 0.76 | 1.18 | 3/8" NPTF   | 0.55 | 2.41 | 2.67 | 1.69 | 2.75 | 0.90 lbs |
| 1/2"   | FCV2818-4     | 1.50       | 0.95 | 1.46 | 1/2" NPTF   | 0.75 | 3.07 | 3.41 | 2.05 | 3.27 | 2.00 lbs |
| 3/4"   | FCV2818-6     | 1.50       | 0.95 | 1.46 | 3/4" NPTF   | 0.75 | 3.08 | 3.41 | 2.19 | 3.50 | 2.00 lbs |
| 1"     | FCV2818-8     | 1.89       | 1.38 | 1.89 | 1" NPTF     | 0.94 | 4.03 | 4.50 | 2.79 | 4.60 | 4.20 lbs |
| 1 1/4" | FCV2818-10    | 2.38       | 1.96 | 2.28 | 1 1/4" NPTF | 1.18 | 5.25 | 5.88 | 3.39 | 6.07 | 9.55 lbs |
| 3/8"   | FCV2818-3-SAE | 1.10       | 0.76 | 1.18 | 06 SAE      | 0.55 | 2.41 | 2.67 | 1.69 | 2.75 | 0.90 lbs |

#### MAXIMUM PRESSURE

- 5000 PSI

#### TEMPERATURE RATING

- -4°F to 176°F



#### SPECIFICATIONS

- Micrometer adjustment knob for accurate valve setting
- Rugged construction
- Carbon steel body with black oxide plating
- Zinc alloy handle
- Steel set screw
- Buna-O-Ring/PTFE stem packing

#### NEEDLE VALVE

| SIZE   | PART #        | DIMENSIONS |      |      |             |      |      |      |      |      |           |
|--------|---------------|------------|------|------|-------------|------|------|------|------|------|-----------|
|        |               | B          | D1   | D2   | D3          | H1   | H2   | H3   | L1   | L2   | WEIGHT    |
| 1/4"   | NVI2810-2     | 1.10       | 0.76 | 1.18 | 1/4" NPTF   | 0.55 | 2.41 | 2.67 | 1.54 | 2.52 | 0.90 lbs  |
| 3/8"   | NVI2810-3     | 1.10       | 0.76 | 1.18 | 3/8" NPTF   | 0.55 | 2.41 | 2.67 | 1.69 | 2.75 | 0.90 lbs  |
| 1/2"   | NVI2810-4     | 1.50       | 0.95 | 1.46 | 1/2" NPTF   | 0.75 | 3.07 | 3.41 | 2.05 | 3.27 | 2.00 lbs  |
| 3/4"   | NVI2810-6     | 1.50       | 0.95 | 1.46 | 3/4" NPTF   | 0.75 | 3.08 | 3.41 | 2.19 | 3.50 | 2.00 lbs  |
| 1"     | NVI2810-8     | 1.89       | 1.38 | 1.89 | 1" NPTF     | 0.94 | 4.03 | 4.50 | 2.79 | 4.60 | 4.20 lbs  |
| 1 1/4" | NVI2810-10    | 2.39       | 1.74 | 2.26 | 1 1/4" NPTF | 1.20 | 5.34 | 5.88 | 2.24 | 4.49 | 7.50 lbs  |
| 1 1/2" | NVI2810-12    | 2.76       | 2.38 | 3.17 | 1 1/2" NPTF | 1.38 | 6.30 | 7.13 | 2.41 | 4.81 | 15.40 lbs |
| 3/8"   | NVI2810-3-SAE | 1.10       | 0.76 | 1.18 | 06 SAE      | 0.55 | 2.41 | 2.67 | 1.69 | 2.75 | 0.90 lbs  |

#### MAXIMUM PRESSURE

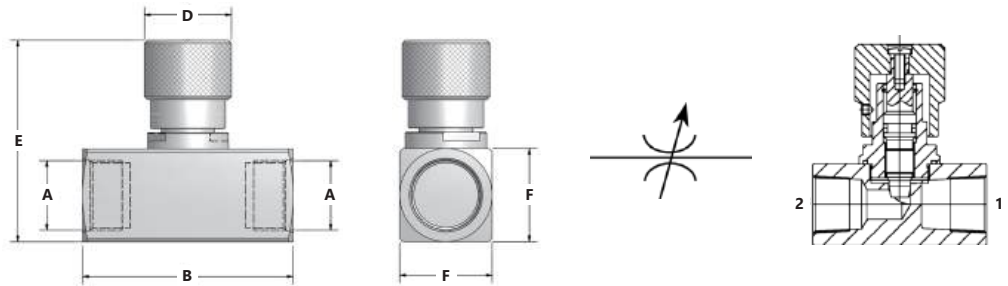
- 5000 PSI

#### TEMPERATURE RATING

- -4°F to 176°F

## NEEDLE VALVES - CARBON STEEL

## BALL VALVES



### SPECIFICATIONS

- NPTF & SAE connections
- Carbon steel with zinc chromate plating (RoHS compliant)
- Set screw allows knob to be locked into position
- Graduated knob & spindle for accurate flow control
- Buna O-Ring / PTFE stem packing

### NEEDLE VALVES

| Part #    |         | A     |     | B    | D    | E    | F    | MAX PSI | MAX FLOW GPM | WEIGHT (LBS) |
|-----------|---------|-------|-----|------|------|------|------|---------|--------------|--------------|
| NPTF      | SAE     | NPTF  | SAE |      |      |      |      |         |              |              |
| NN1/4-1   | NS#4-1  | 1/4   | #4  | 2.12 | 1.18 | 2.67 | 0.98 | 5700    | 4            | 0.70         |
| NN3/8-1   | NS#6-1  | 3/8   | #6  | 2.12 | 1.18 | 2.67 | 0.98 | 5700    | 8            | 0.66         |
| NN1/2-1   | NS#8-1  | 1/2   | #8  | 2.51 | 1.29 | 2.85 | 1.18 | 5700    | 13           | 1.0          |
| NN3/4-1   | NS#12-1 | 3/4   | #12 | 3.19 | 1.65 | 3.70 | 1.57 | 5700    | 21           | 2.3          |
| NN1-1     | NS#16-1 | 1     | #16 | 4.00 | 1.65 | 3.93 | 1.77 | 5700    | 40           | 3.2          |
| NN1-1/4-1 | NS#20-1 | 1-1/4 | #20 | 4.02 | 2.08 | 4.78 | 2.16 | 5000    | 50           | 5.0          |
| NN1-1/2-1 | NS#24-1 | 1-1/2 | #24 | 4.02 | 2.08 | 5.17 | 2.55 | 5000    | 80           | 6.5          |

These valves are for control of flow only. Not to be used as isolation or shut-off valves

### TEMPERATURE RATING

- -4°F to 176°F

## NEEDLE VALVES - CARBON STEEL

## BALL VALVES

### MODEL CODE BREAKDOWN

**N N -1/2 - 1**

#### VALVE SERIES

#### THREAD TYPE

|            |                     |
|------------|---------------------|
| <b>N</b>   | NPTF Pipe Thread    |
| <b>S #</b> | SAE Straight Thread |

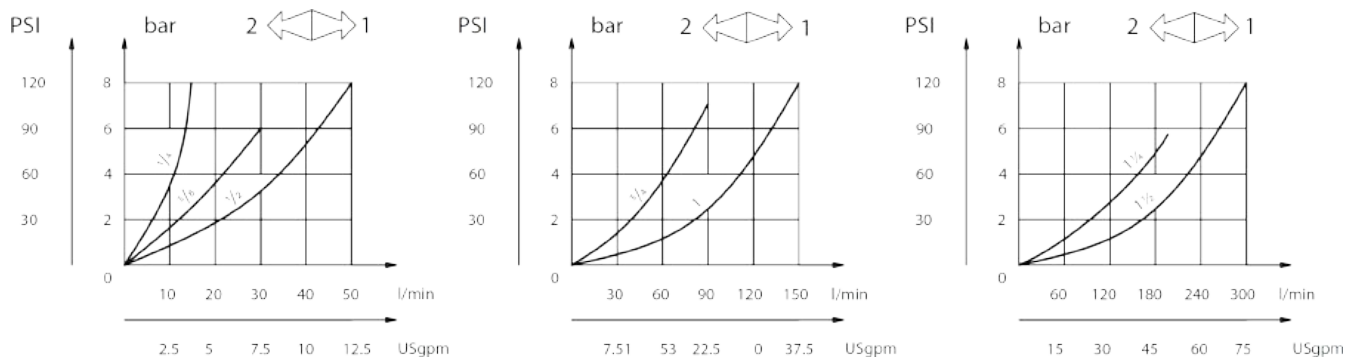
#### MATERIAL

|          |              |
|----------|--------------|
| <b>1</b> | Carbon Steel |
|----------|--------------|

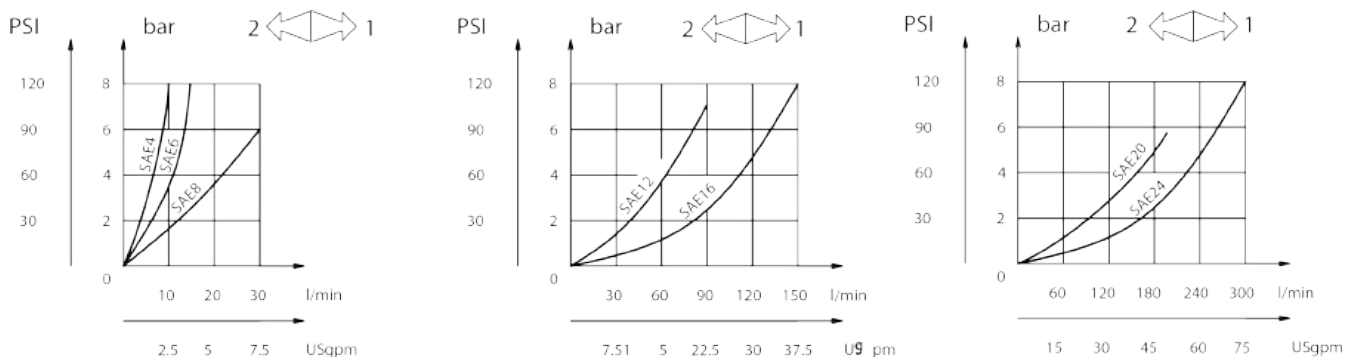
#### THREAD SIZE

|                |      |
|----------------|------|
| <b>Example</b> | N1/2 |
|                | S#8  |

### NPTF

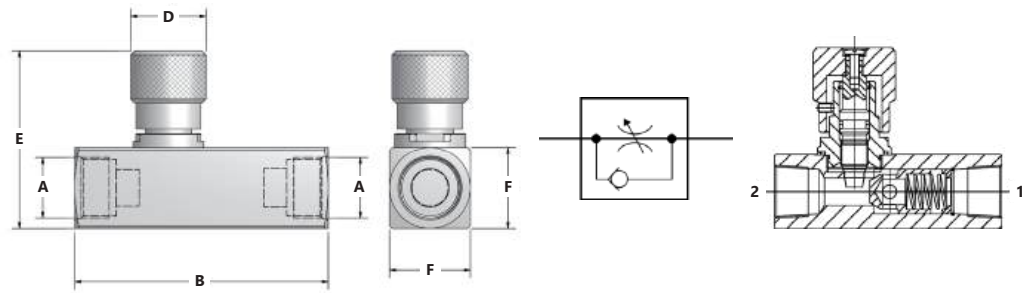


### SAE



## FLOW CONTROL VALVES - CARBON STEEL

## BALL VALVES



### SPECIFICATIONS

- NPTF & SAE connections
- Carbon steel with zinc chromate plating (RoHS compliant)
- Set screw allows knob to be locked into position
- Graduated knob & spindle for accurate flow control
- 7 PSI standard spring setting
- Buna O-Ring / PTFE stem packing

### NEEDLE VALVES

| Part #    |         | A     |     | B    | D    | E    | F    | MAX PSI | MAX FLOW GPM | WEIGHT (LBS) |
|-----------|---------|-------|-----|------|------|------|------|---------|--------------|--------------|
| NPTF      | SAE     | NPTF  | SAE |      |      |      |      |         |              |              |
| FN1/4-1   | FS#4-1  | 1/4   | #4  | 2.60 | 1.18 | 2.67 | 0.98 | 5700    | 4            | 0.83         |
| FN3/8-1   | FS#6-1  | 3/8   | #6  | 3.00 | 1.18 | 2.67 | 0.98 | 5700    | 8            | 0.86         |
| FN1/2-1   | FS#8-1  | 1/2   | #8  | 3.58 | 1.29 | 2.79 | 1.18 | 5700    | 13           | 1.4          |
| FN3/4-1   | FS#12-1 | 3/4   | #12 | 4.43 | 1.65 | 3.70 | 1.57 | 5700    | 21           | 3.0          |
| FN1-1     | FS#16-1 | 1     | #16 | 5.55 | 1.65 | 3.93 | 1.77 | 5700    | 40           | 4.2          |
| FN1-1/4-1 | FS#20-1 | 1-1/4 | #20 | 6.10 | 2.08 | 4.78 | 2.16 | 5000    | 50           | 7.0          |
| FN1-1/2-1 | FS#24-1 | 1-1/2 | #24 | 6.61 | 2.08 | 5.17 | 2.55 | 5000    | 80           | 10.0         |

These valves are for control of flow only. Not to be used as isolation or shut-off valves

### TEMPERATURE RATING

- -4°F to 176°F

### MODEL CODE BREAKDOWN

**F N - 1/2 - 1**

#### VALVE SERIES

#### THREAD TYPE

|            |                     |
|------------|---------------------|
| <b>N</b>   | NPTF Pipe Thread    |
| <b>S #</b> | SAE Straight Thread |

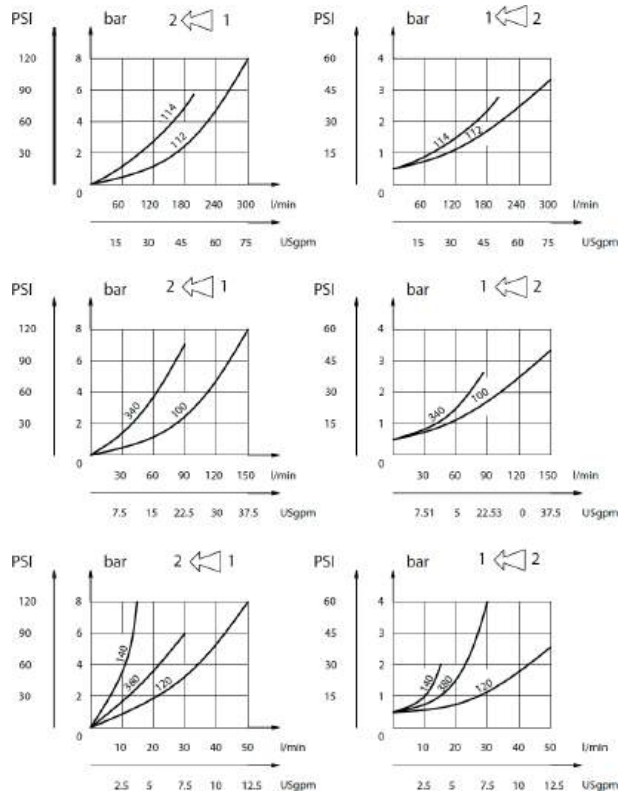
#### MATERIAL

|          |              |
|----------|--------------|
| <b>1</b> | Carbon Steel |
|----------|--------------|

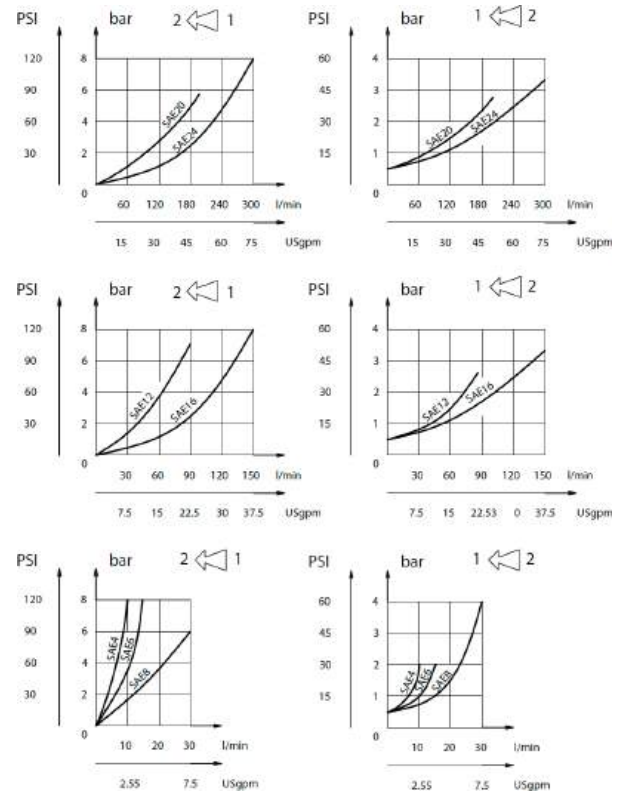
#### THREAD SIZE

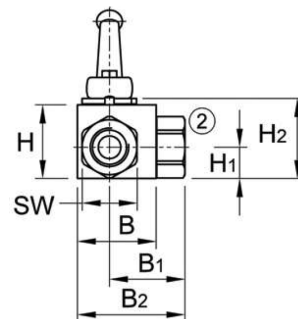
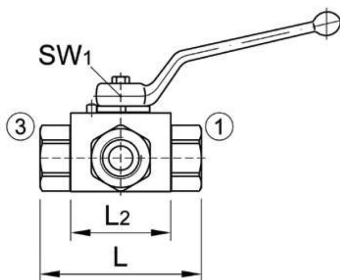
|                |      |
|----------------|------|
| <b>Example</b> | N1/2 |
|                | S#8  |

#### NPTF



#### SAE



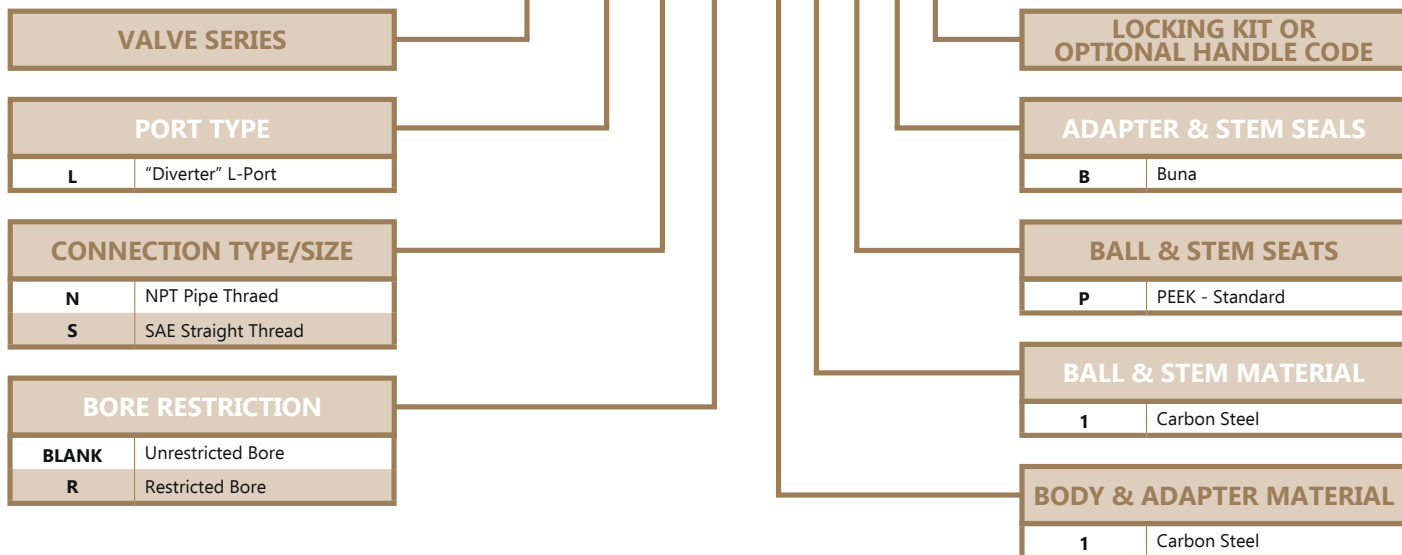


- Any port can be pressurized on AE3K series. Backup o-ring behind seat prevents internal leakage
- Carbon steel with zinc nickel plating
- PEEK seats and Buna O-rings standard on AE3K series (-11PB)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice

**AE3K SERIES NPT/SAE**

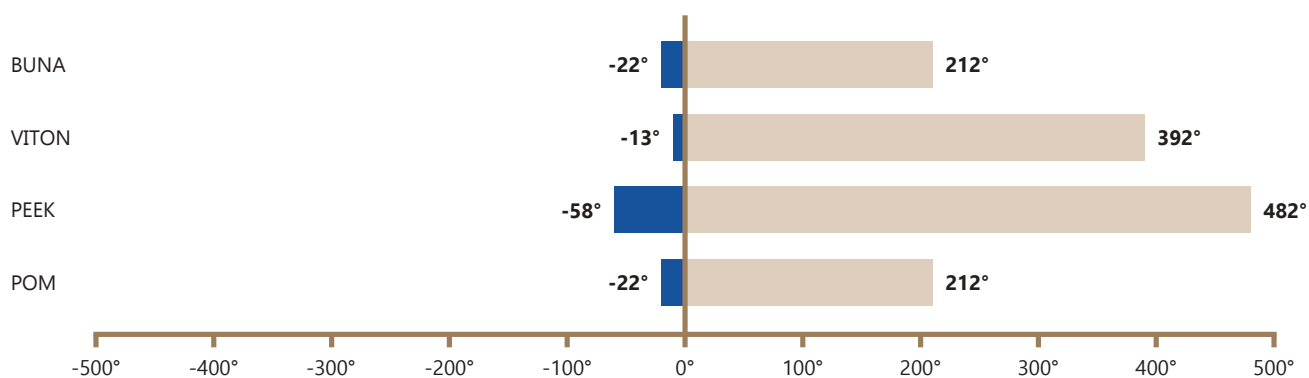
| NPT<br>PART #  | SAE<br>PART #  | DN<br>(NOMINAL MM) | NPT<br>THREAD | SAE<br>THREAD  | L    | L2   | B    | B1   | B2   | H    | H1   | H2   | SW   | SW1  | HANDLE<br>CODE CC/SS | WEIGHT<br>(LBS) | PSI<br>MAX | LOCKING<br>KIT # |
|----------------|----------------|--------------------|---------------|----------------|------|------|------|------|------|------|------|------|------|------|----------------------|-----------------|------------|------------------|
| AE3KLN1/4-11PB | AE3KLS#4-11PB  | 6                  | 1/4-18        | 7/16-20UNF-2B  | 2.72 | 1.42 | 1.18 | 1.36 | 1.83 | 1.18 | 0.59 | 1.28 | 0.75 | 0.28 | 12                   | 0.9             | 7250       | LK4/6            |
| AE3KLN3/8-11PB | AE3KLS#6-11PB  | 10                 | 3/8-18        | 9/16-18UNF-2B  | 2.87 | 1.77 | 1.57 | 1.44 | 2.13 | 1.38 | 0.57 | 1.52 | 0.94 | 0.31 | 13                   | 1.4             | 7250       | LK8/10           |
| AE3KLN1/2-11PB | AE3KLS#8-11PB  | 12                 | 1/2-14        | 3/4-16UNF-2B   | 3.23 | 2.01 | 1.77 | 1.61 | 2.38 | 1.77 | 0.87 | 1.91 | 1.18 | 0.39 | 14                   | 2.1             | 7250       | LK12             |
| AE3KLN3/4-11PB | AE3KLS#12-11PB | 20                 | 3/4-14        | 1-1/16-12UN-2B | 3.66 | 2.36 | 2.17 | 1.89 | 2.81 | 2.36 | 1.14 | 2.52 | 1.61 | 0.55 | 15                   | 3.9             | 6090       | LK20/25          |
| AE3KLN1-11PB   | AE3KLS#16-11PB | 25                 | 1-11.5        | 1-5/16-12UN-2B | 4.53 | 2.76 | 2.56 | 2.26 | 3.44 | 2.56 | 1.22 | 2.72 | 1.97 | 0.55 | 15                   | 6.0             | 6090       | LK20/25          |

**MODEL CODE BREAKDOWN**  
**AE3K L N1 \_ - 1 1 P B \_**



Please consult your system's seal manufacturer for recommendation of seal selection, as Trilex Fluid Power does not accept responsibility for seal selection.

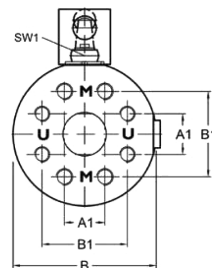
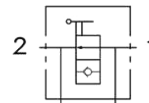
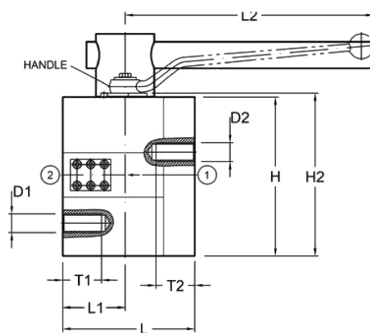
**MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS**



All temperatures are in degrees Fahrenheit.

## ARS SERIES - TWO-WAY DIRECT MOUNT

### BALL VALVES



- Carbon steel with zinc nickel plating
- 316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Both metric (ISO 6162) and UNC (SAE J518) threads standard on all valves
- Bypass port with blanking flange standard. Add APK2#4 to use as bypass valve
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice

### ARS SERIES

| PART #  | DN<br>(NOMINAL MM) | FLANGE<br>SIZE | D1  | T1 | D2        | T2   | A1   | B1   | L    | L1   | B     | H    | H2   | SW1  | HANDLE<br>CODE CC/SS | WEIGHT<br>(lbs) | PSI<br>MAX | LOCKING KIT # |
|---------|--------------------|----------------|-----|----|-----------|------|------|------|------|------|-------|------|------|------|----------------------|-----------------|------------|---------------|
| ARS3#40 | 64                 | 2-1/2          | M12 | 27 | 1/2-13UNC | 1.06 | 2.00 | 3.50 | 5.91 | 2.97 | 7.09  | 6.89 | 7.09 | 0.67 | 22                   | 61.7            | 2500       | LK32/40/50    |
| ARS3#48 | 76                 | 3              | M16 | 30 | 5/8-11UNC | 1.18 | 2.44 | 4.19 | 6.10 | 3.17 | 8.19  | 7.95 | -    | 0.75 | 58                   | 94.8            | 2300       | LK76/102/127  |
| ARS3#64 | 102                | 4              | M16 | 30 | 5/8-11UNC | 1.18 | 3.06 | 5.13 | 6.69 | 3.35 | 10.16 | 9.88 | -    | 1.06 | 57                   | 160.9           | 500        | LK76/102/127  |

## ARS SERIES - TWO-WAY DIRECT MOUNT

### BALL VALVES

#### MODEL CODE BREAKDOWN

**ARS3 #40 - 1 1 D B \_**

#### VALVE SERIES

**ARS3** | Code 61

#### CONNECTION TYPE/SIZE

#### BODY & ADAPTER MATERIAL

|          |                     |
|----------|---------------------|
| <b>1</b> | Carbon Steel        |
| <b>2</b> | 316 Stainless Steel |

#### OPTIONAL LOCKING KIT

#### ADAPTER & STEM SEALS

|          |       |
|----------|-------|
| <b>B</b> | Buna  |
| <b>V</b> | Viton |

#### BALL & STEM SEATS

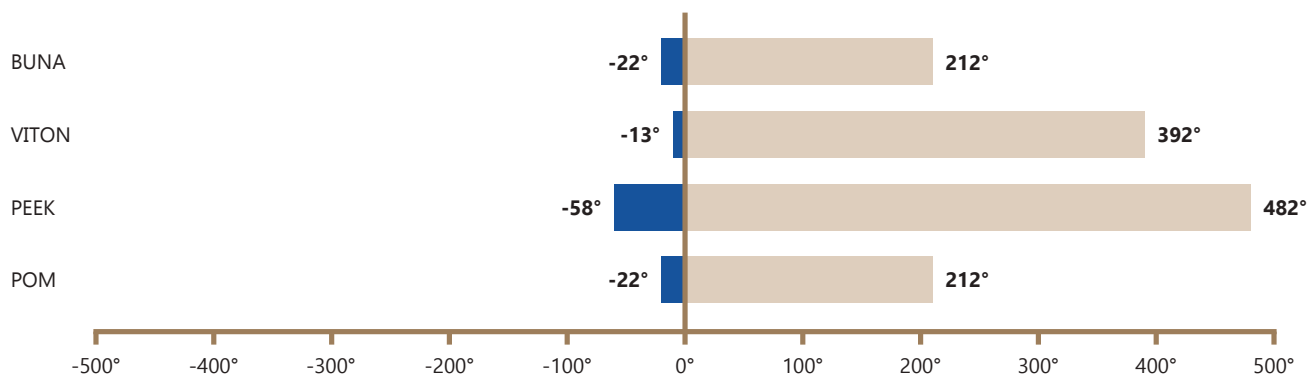
|          |                |
|----------|----------------|
| <b>D</b> | POM - Standard |
|----------|----------------|

#### BALL & STEM MATERIAL

|          |                     |
|----------|---------------------|
| <b>1</b> | Carbon Steel        |
| <b>2</b> | 316 Stainless Steel |

Please consult your system's seal manufacturer for recommendation of seal selection, as Trilex Fluid Power does not accept responsibility for seal selection.

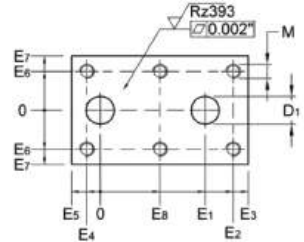
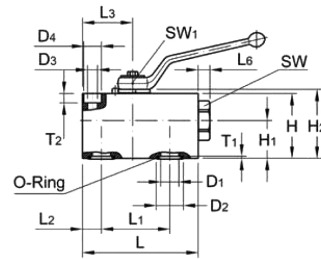
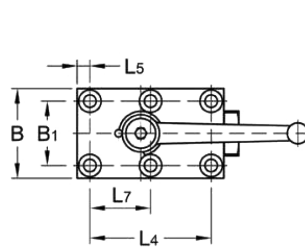
#### MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



All temperatures are in degrees Fahrenheit.

## APK SERIES - TWO-WAY MANIFOLD MOUNT

### BALL VALVES



- Carbon steel with zinc nickel plating
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)

- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice

### APK SERIES

| PART #       | DN<br>(NOMINAL MM) | L    | L1   | L2   | L3   | L4   | L5   | L6   | L7   | B    | B1   | H    | H1   | H2   | T1   | T2   | D1   | D2   | D3   | D4   | SW   | SW1  | HANDLE<br>CODE CC/SS | WEIGHT<br>(LBS) | PSI<br>MAX |
|--------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|-----------------|------------|
| APK2#4-11DB  | 6                  | 2.32 | 1.38 | 0.33 | 0.93 | 1.38 | 0.33 | 0.18 | 0.69 | 1.57 | 1.06 | 1.38 | 0.79 | 1.48 | 0.07 | 0.27 | 0.24 | 0.47 | 0.25 | 0.43 | 0.94 | 0.28 | 12                   | 1.3             | 7250       |
| APK2#6-11DB  | 10                 | 2.87 | 1.73 | 0.39 | 1.14 | 2.17 | 0.30 | 0.28 | 1.08 | 2.17 | 1.57 | 1.77 | 0.96 | 1.91 | 0.07 | 0.31 | 0.37 | 0.59 | 0.33 | N/A  | 1.26 | 0.31 | 13                   | 2.6             | 7250       |
| APK2#8-11DB  | 12                 | 3.86 | 2.28 | 0.63 | 1.67 | 3.27 | 0.30 | 0.39 | 1.63 | 2.36 | 1.77 | 2.17 | 1.26 | 2.30 | 0.07 | 0.31 | 0.49 | 0.98 | 0.33 | N/A  | 1.42 | 0.39 | 14                   | 5.0             | 7250       |
| APK2#12-11DB | 20                 | 4.61 | 2.72 | 0.79 | 2.05 | 3.82 | 0.39 | 0.47 | 1.91 | 2.76 | 2.01 | 2.76 | 1.54 | 2.91 | 0.11 | 0.43 | 0.79 | 1.18 | 0.41 | 0.67 | N/A  | 0.55 | 15                   | 8.8             | 5800       |
| APK2#16-11DB | 25                 | 5.43 | 3.19 | 0.94 | 2.44 | 4.53 | 0.39 | 0.28 | 2.26 | 3.15 | 2.36 | 3.15 | 1.81 | 3.31 | 0.11 | 0.43 | 0.94 | 1.38 | 0.41 | 0.67 | 1.97 | 0.55 | 15                   | 12.8            | 5800       |
| APK2#20-11DB | 32                 | 6.50 | 3.78 | 1.14 | 2.95 | 5.35 | 0.47 | 0.43 | 2.68 | 3.94 | 3.07 | 3.94 | 2.23 | 4.11 | 0.11 | 0.47 | 1.26 | 1.57 | 0.51 | 0.75 | 2.76 | 0.67 | 21                   | 24.2            | 5800       |
| APK2#24-11DB | 40                 | 6.89 | 4.41 | 1.12 | 3.33 | 4.41 | 1.12 | 0.98 | 2.20 | 5.12 | 3.74 | 3.94 | 2.07 | 4.11 | 0.11 | 0.69 | 1.50 | 1.91 | 0.67 | 1.02 | N/A  | 0.67 | 21                   | 33.6            | 5800       |

### APK SERIES

| PART #       | DN<br>(NOMINAL MM) | D1   | E1   | E2   | E3   | E4   | E5   | E6   | E7   | E8   | M   | O-RING<br>(MM) | LOCKING<br>KIT # |
|--------------|--------------------|------|------|------|------|------|------|------|------|------|-----|----------------|------------------|
| APK2#4-11DB  | 6                  | 0.24 | 1.38 | 1.38 | 1.99 | 0.00 | 0.33 | 0.53 | 0.79 | 0.69 | M6  | 7.50 X 2.50    | LK4/6FF          |
| APK2#6-11DB  | 10                 | 0.37 | 1.73 | 2.07 | 2.48 | 0.10 | 0.39 | 0.79 | 1.08 | 0.98 | M8  | 10.50 X 2.50   | LK8/10FF         |
| APK2#8-11DB  | 12                 | 0.61 | 2.28 | 2.93 | 3.23 | 0.33 | 0.63 | 0.89 | 1.18 | 1.30 | M8  | 20.50 X 2.50   | LK12FF           |
| APK2#12-11DB | 20                 | 0.79 | 2.72 | 3.43 | 3.82 | 0.39 | 0.79 | 1.00 | 1.38 | 1.52 | M10 | 23.50 X 3.50   | LK20/25FF        |
| APK2#16-11DB | 25                 | 0.94 | 3.19 | 3.98 | 4.49 | 0.55 | 0.94 | 1.18 | 1.57 | 1.71 | M10 | 28.50 X 3.50   | LK20/25FF        |
| APK2#20-11DB | 32                 | 1.26 | 3.78 | 4.69 | 5.35 | 0.67 | 1.14 | 1.54 | 1.97 | 2.01 | M12 | 33.50 X 3.50   | LK32/40/50FF     |
| APK2#24-11DB | 40                 | 1.50 | 4.41 | 4.41 | 5.77 | 0.00 | 1.12 | 1.87 | 2.56 | 2.20 | M16 | 42.00 X 3.50   | LK32/40/50FF     |

## APK SERIES - TWO-WAY MANIFOLD MOUNT

### BALL VALVES

#### MODEL CODE BREAKDOWN

**APK2 #20 - 1 1 D B**

#### VALVE SERIES

**APK2** | Manifold Mount 2-way

#### CONNECTION TYPE/SIZE

#### BODY & ADAPTER MATERIAL

**1** | Carbon Steel

#### ADAPTER & STEM SEALS

**B** | Buna  
**V** | Viton

#### BALL & STEM SEATS

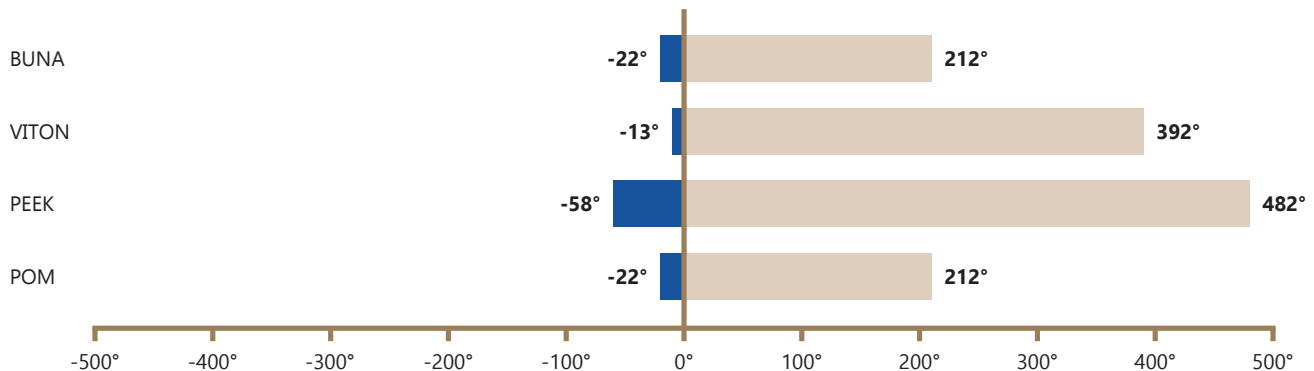
**D** | POM  
**P** | PEEK

#### BALL & STEM MATERIAL

**1** | Carbon Steel

Please consult your system's seal manufacturer for recommendation of seal selection, as Trilex Fluid Power does not accept responsibility for seal selection.

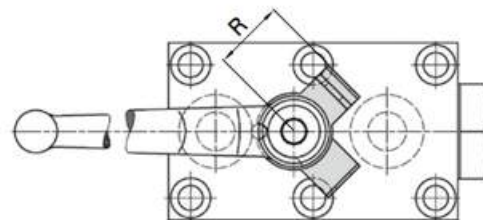
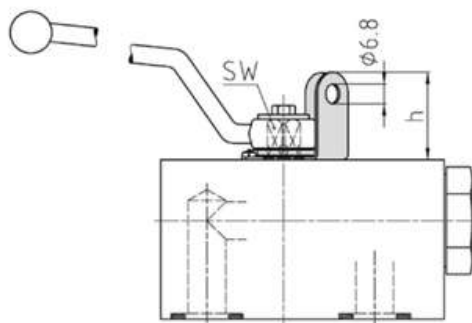
#### MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS



All temperatures are in degrees Fahrenheit.

## LOCKING DEVICE TYPE 4 - STAINLESS STEEL

## ACCESSORIES



### NOTES

- Universal locking device
- Only suitable as retrofit for ball valves with bent lever
- Economical solution
- Can be dismantled after disassembly of lever
- Bent handle is part of delivery

### DIMENSIONS

| SW | h    |
|----|------|
| 7  | 24   |
| 9  | 28   |
| 12 | 34,5 |
| 14 | 34,5 |
| 17 | 44   |

### ORDER CODE PER MATERIAL

| Stainless Steel |
|-----------------|
| 052 40570       |
| 052 36682       |
| 052 52896       |
| 052 36683       |
| 052 36684       |

### ORDER EXAMPLE

Mounting set consisting of locking plate, stopping disk and ring

Order Text

Locking device type 4 for ball valve DN 10-13

Article No.

052 36682

Assembled with ball valves:

Ball Valve Type  
(ball valve design: see data sheets)

PKH - DN13 - 112A

Article No.

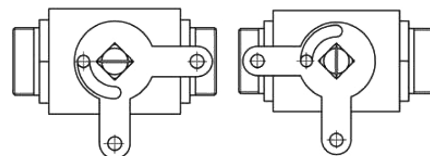
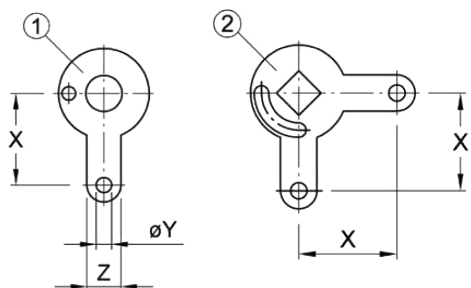
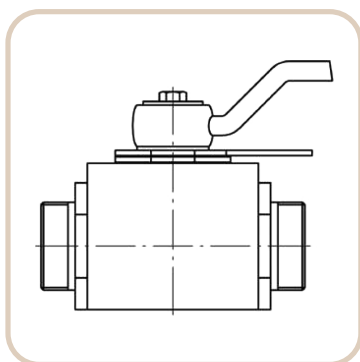
29571

Description

with locking device type 4

### MOUNTING SETS ARE VALID FOR

| Type | BKH / BKHP500 | MKHP420 Steel | MKHP-SAEFS | MKHP-SAE | KHZ-SAE | BK3 / BK3-S | 3KH | 4KH | PKH | PK3 | MPKH3/4 |
|------|---------------|---------------|------------|----------|---------|-------------|-----|-----|-----|-----|---------|
|------|---------------|---------------|------------|----------|---------|-------------|-----|-----|-----|-----|---------|



**SWITCHING POSITIONS**

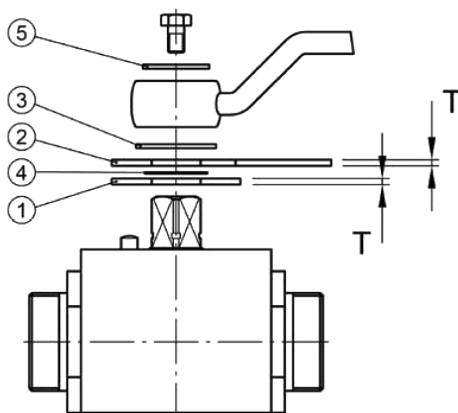
- Add suffix "L" to the end of any valve part number to have locking kit installed prior to shipment
- Stainless Steel
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice

**STANDARD LOCKING KITS**

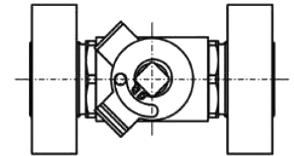
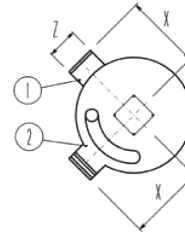
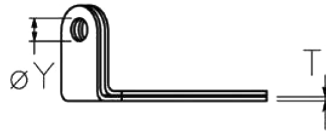
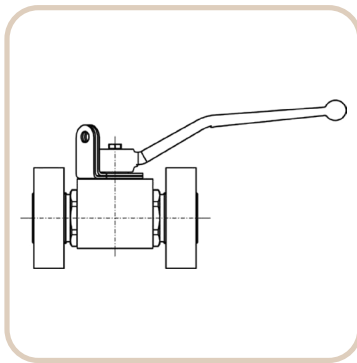
| PART #     | FITS DN<br>(NOMINAL MM) | T    | X    | Y    | Z    |
|------------|-------------------------|------|------|------|------|
| LK4/6      | 4/6                     | 0.03 | 0.71 | 0.35 | 0.79 |
| LK8/10     | 8/10                    | 0.05 | 0.83 | 0.35 | 0.79 |
| LK12       | 12                      | 0.05 | 1.14 | 0.35 | 0.79 |
| LK20/25    | 20/25                   | 0.06 | 1.34 | 0.35 | 0.79 |
| LK32/40/50 | 32/40/50                | 0.07 | 2.13 | 0.35 | 0.79 |

NOTE: All locking kits in stainless steel

**ASSEMBLY**



| ITEM | PART                       |
|------|----------------------------|
| 1    | Mounting plate             |
| 2    | Stop or actuation disc     |
| 3    | Retaining ring             |
| 4    | Thrust pad                 |
| 5    | Disc (DN32, DN40 and DN50) |



**SWITCHING POSITIONS**

- Add suffix "L" to the end of any valve part number to have locking kit installed prior to shipment
- Stainless Steel
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice

**FLANGED VALVE LOCKING KITS**

| PART #       | FITS DN<br>(NOMINAL MM) | T    | X    | Y    | Z    |
|--------------|-------------------------|------|------|------|------|
| LK4/6FF      | 4/6                     | 0.05 | 0.71 | 0.35 | 0.59 |
| LK8/10FF     | 8/10                    | 0.05 | 0.83 | 0.35 | 0.59 |
| LK12FF       | 12                      | 0.05 | 1.10 | 0.35 | 0.59 |
| LK20/25FF    | 20/25                   | 0.07 | 1.34 | 0.35 | 0.59 |
| LK32/40/50FF | 32/40/50                | 0.07 | 1.65 | 0.35 | 0.59 |

NOTE: All locking kits in stainless steel

**ASSEMBLY**

|  | ITEM | PART           |
|--|------|----------------|
|  | 1    | Mounting plate |
|  | 2    | Cam plate      |
|  | 3    | Thrust pad     |
|  | 4    | Lock washer    |

**ASSEMBLY**

|  | ITEM | PART    |
|--|------|---------|
|  | 1    | Bolts   |
|  | 2    | Bracket |
|  | 3    | Pin     |

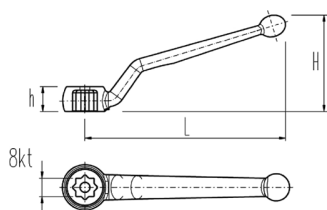
**LOCKING KIT FOR 3" - 5" ARS SERIES**

**PART #**

LK76/102/127

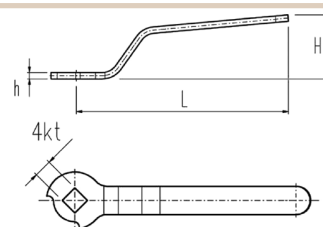
## HANDLES

## BALL VALVES



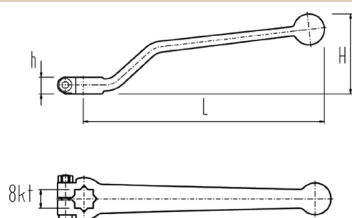
### ZINC DIE CAST HANDLES

| PART # | 8KT | CODE | L    | H    | h    |
|--------|-----|------|------|------|------|
| A03709 | 7   | 12   | 2.99 | 1.06 | 0.33 |
| A03708 | 8   | 13   | 3.94 | 1.14 | 0.43 |
| A03706 | 10  | 14   | 4.45 | 2.13 | 0.55 |
| A03694 | 14  | 15   | 7.24 | 2.24 | 0.71 |



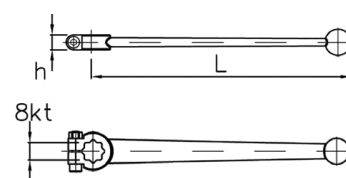
### STAINLESS STEEL HANDLES

| PART # | 4KT | CODE | L    | H    | h    |
|--------|-----|------|------|------|------|
| A03749 | 7   | 32   | 2.99 | 0.91 | 0.16 |
| A03750 | 8   | 33   | 5.12 | 1.57 | 0.16 |
| A03751 | 10  | 34   | 5.12 | 1.57 | 0.16 |
| A03752 | 14  | 35   | 7.28 | 1.77 | 0.20 |



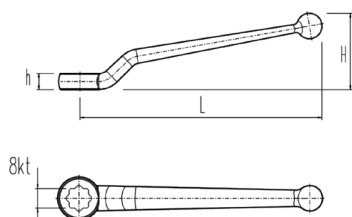
### ALUMINUM HANDLES

| PART # | 8KT | CODE | L     | H    | h    |
|--------|-----|------|-------|------|------|
| A03020 | 8   | 4    | 3.58  | 0.94 | 0.35 |
| A03636 | 9   | 54   | 5.12  | 1.85 | 0.43 |
| A03009 | 12  | 7    | 7.36  | 2.13 | 0.51 |
| A03004 | 14  | 8    | 7.36  | 2.44 | 0.51 |
| A03027 | 17  | 9    | 10.91 | 2.76 | 0.55 |
| A03028 | 19  | 10   | 10.20 | 3.19 | 0.65 |
| A03610 | 22  | 11   | 14.21 | 2.68 | 0.71 |



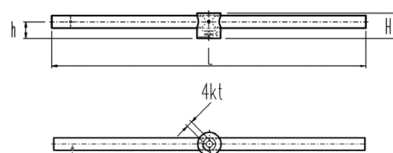
### ALUMINUM HANDLES

| PART # | 8KT | CODE | L     | h    |
|--------|-----|------|-------|------|
| A03029 | 11  | 41   | 6.93  | 0.47 |
| A03030 | 12  | 42   | 7.87  | 0.55 |
| A03031 | 14  | 43   | 7.87  | 0.51 |
| A03005 | 17  | 44   | 9.45  | 0.55 |
| A03032 | 19  | 45   | 10.98 | 0.63 |
| A03620 | 22  | 46   | 12.64 | 0.75 |
| A03010 | 24  | 47   | 12.64 | 0.75 |



### STEEL AND STAINLESS STEEL\* HANDLES

| PART # | 8KT | CODE | L     | H    | h    |
|--------|-----|------|-------|------|------|
| A03804 | 7   | 16   | 3.78  | 1.57 | 0.35 |
| A03803 | 8   | 17   | 3.78  | 1.57 | 0.35 |
| A03414 | 10  | 19   | 4.57  | 1.89 | 0.49 |
| A03634 | 14  | 20   | 7.36  | 2.13 | 0.51 |
| A03440 | 17  | 21   | 8.31  | 2.60 | 0.55 |
| A03758 | 17* | 37   | 8.31  | 2.60 | 0.55 |
| A03539 | 17  | 22   | 12.60 | 2.99 | 0.67 |
| A03759 | 17* | 38   | 12.60 | 2.99 | 0.67 |
| A03548 | 19  | 23   | 12.60 | 2.99 | 0.67 |



### STEEL HANDLES

| PART # | 4KT | CODE | L     | H    | h    |
|--------|-----|------|-------|------|------|
| A03755 | 27  | 57   | 39.37 | 3.54 | 2.34 |
| A03754 | 19  | 58   | 23.62 | 3.15 | 2.09 |

- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice

### LOCK OUT KITS

|  | PART #  | DESCRIPTION                | MATERIAL                       |
|-----------------------------------------------------------------------------------|---------|----------------------------|--------------------------------|
|                                                                                   | LK-1    | Fits ¼"-½" BKH-BK3 valves  | Steel with zinc clear coating  |
|                                                                                   | LK-1-B  | Fits ¼"-½" BKH-BK3 valves  | Steel with black oxide coating |
|                                                                                   | LK-1-SS | Fits ¼"-½" RKH valves      | Stainless Steel                |
|                                                                                   | LK-2    | Fits ¾"-1½" BKH-BK3 valves | Steel with zinc clear coating  |
|                                                                                   | LK-2-B  | Fits ¾"-1½" BKH-BK3 valves | Steel with black oxide coating |
|                                                                                   | LK-2-SS | Fits ¾"-1" RKH valves      | Stainless Steel                |
|                                                                                   | LK-3    | Fits 1¼"-2" SKH-SK3 valves | Steel with zinc clear coating  |
|                                                                                   | LK-3-B  | Fits 1¼"-2" SKH-SK3 valves | Steel with black oxide coating |
|                                                                                   | LK-3-SS | Fits 1¼"-2" RKH valves     | Stainless Steel                |

### HANDLES

|  | PART #   | DESCRIPTION                                  |
|-----------------------------------------------------------------------------------|----------|----------------------------------------------|
|                                                                                   | SW-9     | Steel cranked handle for 9mm (0.36") stem    |
|                                                                                   | SW-9-A   | Red Aluminum handle for 9mm (0.36") stem     |
|                                                                                   | SW-9-SS  | Stainless Steel handle for 9mm (0.36") stem  |
|                                                                                   | SW-14    | Steel cranked handle for 14mm (0.56") stem   |
|                                                                                   | SW-14-A  | Red Aluminum handle for 14mm (0.56") stem    |
|                                                                                   | SW-14-SS | Stainless Steel handle for 14mm (0.56") stem |
|                                                                                   | SW-17    | Steel cranked handle for 17mm (0.67") stem   |
|                                                                                   | SW-17-A  | Red Aluminum handle for 17mm (0.67") stem    |

NOTE: Handles come with screws.

### SEAL KITS

|  | PART #           | DESCRIPTION                 |
|-------------------------------------------------------------------------------------|------------------|-----------------------------|
|                                                                                     | BKH-14-KIT-1123  | Seal kit Polyacetal/Buna    |
|                                                                                     | BKH-14-KIT-1125  | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | BKH-38-KIT-1123  | Seal kit Polyacetal/Buna    |
|                                                                                     | BKH-38-KIT-1125  | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | BKH-12-KIT-1123  | Seal kit Polyacetal/Buna    |
|                                                                                     | BKH-12-KIT-1125  | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | BKH-34-KIT-1123  | Seal kit Polyacetal/Buna    |
|                                                                                     | BKH-34-KIT-1125  | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | BKH-1-KIT-1123   | Seal kit Polyacetal/Buna    |
|                                                                                     | BKH-1-KIT-1125   | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | SKH-114-KIT-3123 | Seal kit Polyacetal/Buna    |
|                                                                                     | SKH-114-KIT-3125 | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | SKH-112-KIT-3123 | Seal kit Polyacetal/Buna    |
|                                                                                     | SKH-112-KIT-3125 | Seal kit Polyacetal/FKM/FPM |
|                                                                                     | SKH-2-KIT-3123   | Seal kit Polyacetal/Buna    |
|                                                                                     | SKH-2-KIT-3125   | Seal kit Polyacetal/FKM/FPM |

NOTE: Other seat and seal kits available. Contact for details.



 905-545-2038 

 716-283-8781 

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