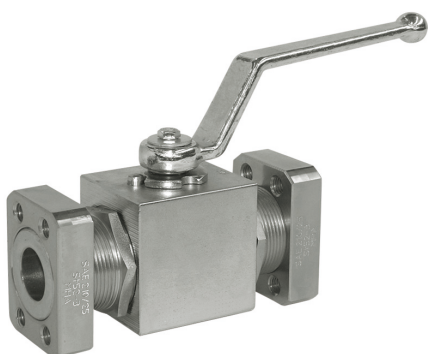


## High-Pressure Block Body Ball Valve - Type BBV



### Characteristics

Two-way high-pressure block body ball valves designed for use as on/off devices for hydraulic applications

#### Standard Construction

- Block body design for in-line assembly
- Supplied with off-set lever

#### Standard Materials

- Body: Carbon Steel, zinc/iron-plated
- Ball: Carbon Steel, hard chrome-plated
- Stem: Carbon Steel
- Lever: Zinc (STAUFF Size 08)
- Carbon Steel (STAUFF Sizes 12 and 16)
- Ball seat: Delrin® (POM)
- O-rings: FPM (Viton®)

#### Standard Connections Styles / Sizes

- 3000 PSI (code 61) SAE mating flange connectors
- 6000 PSI (code 62) SAE mating flange connectors
- Metric ISO and unified coarse (UNC) threads

#### Pressure Range

- Pressure range: up to 420 bar / 6000 PSI (depending on size and material combination of the ball valve)

**Please note: The final maximum working pressure is determined by flange and pipe/tubing rating.**

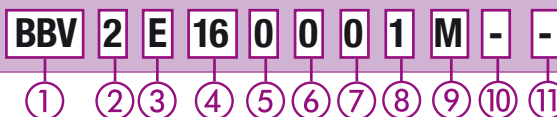
#### Temperature Range

- Operating temperature range: -20°C ... +100°C / -4°F ... + 212°F

#### Options / Accessories

- Flanges and flange kits (see Flanges section)
- Alternative lever designs/materials (see page F98)
- Locking devices (see pages F99-F101)
- Pneumatic actuator packages (see page F102)
- Limit switches (see page F102)
- Stainless Steel body
- Stainless Steel ball and stem
- Special ball seat and O-ring materials available for lower/higher temperatures and more aggressive media
- Additional assembling threads / holes (see page F103)
- Electrical actuators available on request. Please consult STAUFF for further information.

### Order Codes



#### ① Type

High-Pressure Block Body Ball Valve **BBV**

#### ② Number of Ports

Two Ports (Two-Way Ball Valve) **2**

#### ③ Connection Style

3000 PSI (Code 61) SAE Mating Flange Connectors with Metric ISO Threads	<b>EM</b>
3000 PSI (Code 61) SAE Mating Flange Connectors with Unified Coarse (UNC) Threads	<b>E</b>
6000 PSI (Code 62) SAE Mating Flange Connectors with Metric ISO Threads	<b>SM</b>
6000 PSI (Code 62) SAE Mating Flange Connectors with Unified Coarse (UNC) Threads	<b>S</b>

Please consult STAUFF for alternative connection styles.

#### ④ Connection Size

STAUFF Size (according to dimension table)		
<b>08</b>	<b>12</b>	<b>16</b>

Please consult STAUFF for alternative connection sizes.

#### ⑤ Body Material / Surface Finishing

Carbon Steel, zinc/iron-plated	<b>0</b>
Stainless Steel V4A (AISI 316Ti)	<b>1</b>

Alternative materials / surface finishings are available upon request. Consult STAUFF for further information.

#### ⑥ Ball / Stem Material

Ball: Carbon Steel, hard chrome-plated	<b>0</b>
Stem: Carbon Steel	<b>0</b>
Ball / Stem: Stainless Steel V4A (AISI 316Ti)	<b>1</b>

Alternative materials / surface finishings are available upon request. Consult STAUFF for further information.

#### ⑦ Ball Seat Material

Delrin® (POM)	<b>0</b>
---------------	----------

Alternative materials are available upon request. Consult STAUFF for further information.

#### ⑧ O-Ring Material

NBR (Buna-N®)	<b>0</b>
FPM (Viton®)	<b>1</b>

Alternative materials are available upon request. Consult STAUFF for further information.

#### ⑨ Manufacturing Code

Manufacturing code for all connection styles	<b>M</b>
Manufacturing code for high-pressure version of 6000 PSI Series (STAUFF Size 16)	<b>H</b>

#### ⑩ Lever Options

Supplied with standard lever (according to table)	<b>-</b>
Supplied without lever	<b>-0</b>

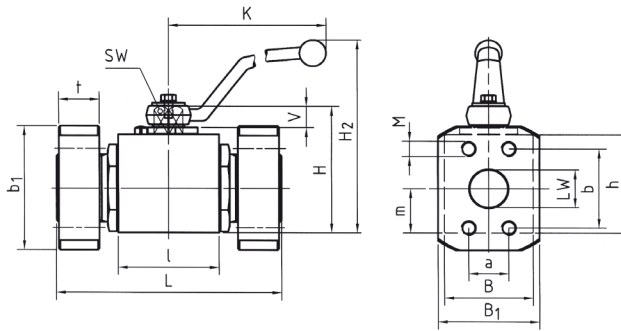
Alternative levers can be ordered separately. Please see page F98 for further information.

#### ⑪ Accessories / Options

Supplied without accessories	<b>-</b>
Supplied with Locking Device LD1	<b>-LD1</b>
Supplied with Locking Device LD2	<b>-LD2</b>
Supplied with Locking Device LD3 (standard*)	<b>-LD3</b>
Supplied with Locking Device LD4	<b>-LD4</b>
Supplied with Double-Acting Pneumatic Actuator (Please add size **)	<b>-EDA**</b>
Supplied with Single-Acting Pneumatic Actuator (Please add size **)	<b>-ESA**</b>
Supplied with Limit Switch in open position	<b>-LS-0</b>
Supplied with Limit Switch in closed position	<b>-LS-C</b>
Supplied with Limit Switch in open and closed position	<b>-LS-OC</b>

\*1 LD4 is the standard locking device option for the high-pressure version (manufacturing code H). Please see page F99 for further information.

### High-Pressure Block Body Ball Valve - Type BBV 3000 PSI SAE Flange Connection (ISO 6162-1)



When ordering the standard option as indicated in the table below, the following materials will be supplied:

- Body, ball and stem: Carbon Steel
- Lever: Zinc (STAUFF Size 08)  
Carbon Steel (STAUFF Sizes 12 and 16)
- Ball seat: Delrin® (POM)
- O-rings: FPM (Viton®)

#### 3000 PSI Series (Code 61) - Unified Coarse (UNC) Threads

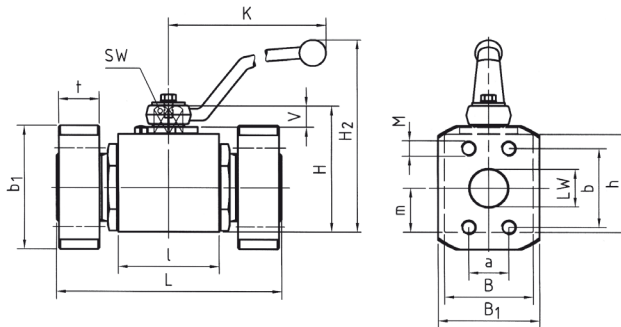
STAUFF Size	SAE Flange Size	Nominal Size DN	Dimensions (mm/in)																Nom. Pressure (bar/PSI)	Weight (kg/lbs)	Order Codes (Standard Option)	
			LW	L	I	B	H	h	m	V	SW	K	B1	b1	t	a	b	M				H2
08	1/2	13	13	120	48	35	54	40	19	11	9	115	48	56	13	17,5	38,1	5/16-18	89	345	1,50	BBV2E080001M
			.051	4,72	1,89	1,38	2,13	1,57	0,75	0,43	0,35	4,53	1,89	2,20	0,51	0,69	1,50	UNC	3,50	5000	3,30	
12	3/4	20	20	136	62	49	75	57	24,5	14	14	170	50	65	14	22,2	47,6	3/8-16	127	345	3,00	BBV2E120001M
			.079	5,35	2,44	1,93	2,95	2,24	0,96	0,55	0,55	6,69	1,97	2,56	0,55	0,87	1,87	UNC	5,00	5000	6,60	
16	1	24	25	148	66	58	83	65	29,5	14	14	170	60	70	16	26,2	52,4	3/8-16	135	345	4,50	BBV2E160001M
			.098	5,83	2,60	2,28	3,27	2,56	1,16	0,55	0,55	6,69	2,36	2,76	0,63	1,03	2,06	UNC	5,31	5000	9,90	

#### 3000 PSI Series (Code 61) - Metric ISO Threads

STAUFF Size	SAE Flange Size	Nominal Size DN	Dimensions (mm/in)																Nom. Pressure (bar/PSI)	Weight (kg/lbs)	Order Codes (Standard Option)	
			LW	L	I	B	H	h	m	V	SW	K	B1	b1	t	a	b	M				H2
08	1/2	13	13	120	48	35	54	40	19	11	9	115	48	56	13	17,5	38,1	M8	89	345	1,50	BBV2EM080001M
			.051	4,72	1,89	1,38	2,13	1,57	0,75	0,43	0,35	4,53	1,89	2,20	0,51	0,69	1,50		3,50	5000	3,30	
12	3/4	20	20	136	62	49	75	57	24,5	14	14	170	50	65	14	22,2	47,6	M10	127	345	3,00	BBV2EM120001M
			.079	5,35	2,44	1,93	2,95	2,24	0,96	0,55	0,55	6,69	1,97	2,56	0,55	0,87	1,87		5,00	5000	6,60	
16	1	24	25	148	66	58	83	65	29,5	14	14	170	60	70	16	26,2	52,4	M10	135	345	4,50	BBV2EM160001M
			.098	5,83	2,60	2,28	3,27	2,56	1,16	0,55	0,55	6,69	2,36	2,76	0,63	1,03	2,06		5,31	5000	9,90	

Please note: The final maximum working pressure is determined by flange and pipe/tubing rating.

### High-Pressure Block Body Ball Valve - Type BBV 6000 PSI SAE Flange Connection (ISO 6162-2)



When ordering the standard option as indicated in the table below, the following materials will be supplied:

- Body, ball and stem: Carbon Steel
- Lever: Zinc (STAUFF Size 08)  
Carbon Steel (STAUFF Sizes 12 and 16)
- Ball seat: Delrin® (POM)
- O-rings: FPM (Viton®)

#### 6000 PSI Series (Code 62) - Unified Coarse (UNC) Threads

STAUFF Size	SAE Flange Size	Nominal Size DN	Dimensions (mm/in)																Nom. Pressure (bar/PSI)	Weight (kg/lbs)	Order Codes (Standard Option)	
			LW	L	I	B	H	h	m	V	SW	K	B1	b1	t	a	b	M				H2
08	1/2	13	13	120	48	35	54	40	19	11	9	115	48	56	16	18,2	40,5	5/16-18	89	420	1,50	BBV2S080001M
			.51	4,72	1,89	1,38	2,13	1,57	.75	.43	.35	4,53	1,89	2,20	.63	.72	1,59	UNC	3,50	6000	3,30	
12	3/4	20	20	136	62	49	75	57	24,5	14	14	170	60	71	19	23,8	50,8	3/8-16	127	420	3,00	BBV2S120001M
			.79	5,35	2,44	1,93	2,95	2,24	.96	.55	.55	6,69	2,36	2,80	.75	.94	2,00	UNC	5,00	6000	6,60	
16	1	24	25	148	66	58	83	65	29,5	14	14	170	70	81	24	27,8	57,2	7/16-14	135	420	4,50	BBV2S160001H
			.98	5,83	2,60	2,28	3,27	2,56	1,16	.55	.55	6,69	2,76	3,19	.94	1,09	2,25	UNC	5,31	6000	9,90	

#### 6000 PSI Series (Code 62) - Metric ISO Threads

STAUFF Size	SAE Flange Size	Nominal Size DN	Dimensions (mm/in)																Nom. Pressure (bar/PSI)	Weight (kg/lbs)	Order Codes (Standard Option)	
			LW	L	I	B	H	h	m	V	SW	K	B1	b1	t	a	b	M				H2
08	1/2	13	13	120	48	35	54	40	19	11	9	115	48	56	16	18,2	40,5	M8	89	420	1,50	BBV2SM080001M
			.51	4,72	1,89	1,38	2,13	1,57	.75	.43	.35	4,53	1,89	2,20	.63	.72	1,59		3,50	6000	3,30	
12	3/4	20	20	136	62	49	75	57	24,5	14	14	170	60	71	19	23,8	50,8	M10	127	420	3,00	BBV2SM120001M
			.79	5,35	2,44	1,93	2,95	2,24	.96	.55	.55	6,69	2,36	2,80	.75	.94	2,00		5,00	6000	6,60	
16	1	24	25	148	66	58	83	65	29,5	14	14	170	70	81	24	27,8	57,2	M12	135	420	4,50	BBV2SM160001H
			.98	5,83	2,60	2,28	3,27	2,56	1,16	.55	.55	6,69	2,76	3,19	.94	1,09	2,25		5,31	6000	9,90	

Please note: The final maximum working pressure is determined by flange and pipe/tubing rating.