



# High-pressure block ball valve HBA-C, steel With male thread

**DN 4 - 25 mm PN max. 500 bar**

- Series**
- 02 – male thread on both sides for non-soldering compression fittings with cutting ring DIN 2353 – light-duty series
  - 03 – male thread on both sides for non-soldering compression fittings with cutting ring DIN 2353 – heavy-duty series
  - 05 – male thread on both sides flat sealing for pipe thread DIN EN ISO 228-1
  - 44 – male thread on both sides for flat sealing NPT ANSI/ASME B 1.20.1

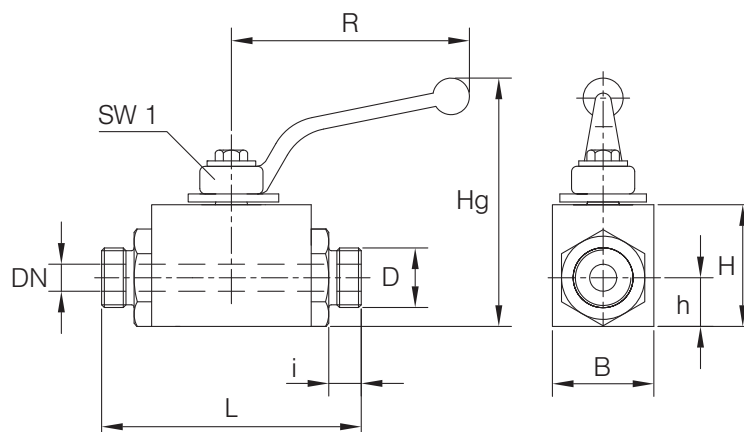
**Face-to-face lengths** DIN 3202 – 5 series V1

**Temperature range** Standard: -10°C to +90°C  
On request: -50°C to +250°C

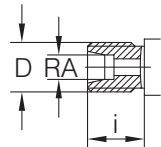
**Range of use** Liquids: Liquids group 1 and 2 according to PED 2014/68/EU Article 13  
Gases: Liquids group 1 and 2 according to PED 2014/68/EU Article 13  
As a matter of principle, the resistance to the flow medium must be ensured.

**Technical specification** The HBA-C type ball valve consists of a block body with connector screwed in on both sides. The stem is fitted blowout-proof from the outside. Simple replacement of the stem seal is ensured by the fitting used. Actuators can be attached by means of an extension kit. This retrofit requirement must be specified when placing the order (additional charge).

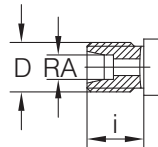
# Technical data HBA-C



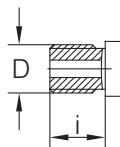
## Series 02



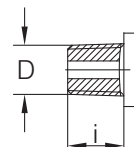
## Series 03



## Series 05



## Series 44



### Series 02 (non-soldering compression fittings with cutting ring DIN 2353 light-duty series)

DN mm	RA mm	PN bar	D	i mm	L mm	B mm	H mm	h mm	Hg mm	R mm	SW1 mm	Weight kg
4	6	500	M 12x1.5	10	76	25	30	12.5	61	76	7	0.3
6	8	500	M 14x1.5	10	76	25	30	12.5	61	76	7	0.3
8	10	500	M 16x1.5	11	76	30	40	15.0	92	112	10	0.5
10	12	500	M 18x1.5	11	80	30	40	15.0	92	112	10	0.5
12	15	500	M 22x1.5	12	96	35	45	18.0	85	130	10	0.8
16	18	500	M 26x1.5	12	105	40	50	21.0	90	130	10	1.0
20	22	400	M 30x2	14	110	45	55	25.0	95	130	10	1.3
25	28	400	M 36x2	14	120	55	65	30.0	111	160	10	2.3

Note! The pressure rating of the pipe unions can deviate from the nominal pressure rating of the ball valve.

### Series 03 (non-soldering compression fittings with cutting ring DIN 2353 – heavy-duty series)

DN mm	RA mm	PN bar	D	i mm	L mm	B mm	H mm	h mm	Hg mm	R mm	SW1 mm	Weight kg
4	8	500	M 16x1.5	12	76	25	30	12.5	61	76	7	0.3
6	10	500	M 18x1.5	12	76	25	30	12.5	61	76	7	0.3
8	12	500	M 20x1.5	12	76	30	40	15.0	92	112	10	0.5
10	14	500	M 22x1.5	14	80	30	40	15.0	92	112	10	0.5
12	16	500	M 24x1.5	14	96	35	45	18.0	85	130	10	0.8
16	20	500	M 30x2	16	105	40	50	21.0	90	130	10	1.0
20	25	400	M 36x2	18	110	45	55	25.0	95	130	10	1.3
25	30	400	M 42x2	20	132 *	55	65	31.0	111	160	10	2.3

\* Deviating from the length V1, where necessary request special version in length V1.

Note! The pressure rating of the pipe unions can deviate from the nominal pressure rating of the ball valve.

**Series 05** (flat sealing male pipe thread DIN EN ISO 228 - 1)

DN mm	PN bar	D	i mm	L mm	B mm	H mm	h mm	Hg mm	R mm	SW1 mm	Weight kg
4	500	G1/8"	10	66 *	25	30	12.5	61	76	7	0.3
6	500	G1/4"	11	68 *	25	30	12.5	61	76	7	0.3
8	500	G3/8"	12	76	30	40	15.0	92	112	10	0.5
10	500	G1/2"	12	80 *	30	40	15.0	92	112	10	0.5
15	500	G3/4"	14	103 *	40	50	21.0	90	130	10	1.0
20	400	G1"	16	109 *	45	55	25.0	95	130	10	1.3
25	400	G1"	18	128 *	55	65	31.0	111	160	10	2.3

\*Deviating from the length V1, where necessary request special version in length V1.

**Series 44** (flat sealing NPT – male thread ANSI/ASME B 1.20.1)

DN mm	PN bar	D	i mm	L mm	B mm	H mm	h mm	Hg mm	R mm	SW1 mm	Weight kg
4	500	NPT 1/8"	9.5	69 *	25	30	12.5	61	76	7	0.3
6	500	NPT 1/4"	14.5	79 *	25	30	12.5	61	76	7	0.3
8	500	NPT 3/8"	14.5	84 *	30	40	15.0	92	112	10	0.5
10	500	NPT 1/2"	19.0	93 *	30	40	15.0	92	112	10	0.5
15	500	NPT 3/4"	19.0	113 *	40	50	21.0	90	130	10	1.0
20	400	NPT 1"	24.0	125 *	45	55	25.0	95	130	10	1.3
25	400	NPT 1 1/4"	24.5	141 *	55	65	31.0	111	160	10	2.3

\*Deviating from the length V1, where necessary request special version in length V1.

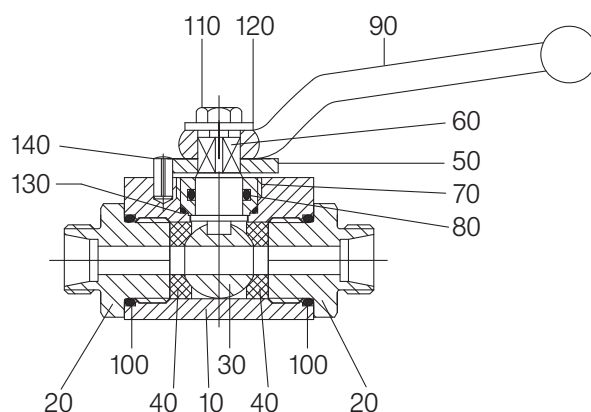
**Example of order:** Ball valve type HBA-C DN 12 made of steel with male thread for non-soldering compression fittings with cutting ring DIN 2353 – light-duty series (Series 02)

**HBA-C 12 02**

# Parts list HBA-C

Pos.	Designation	Material*
10	Body	Steel
20	Fitting	Steel
30	Ball	Steel
40	Seal	POM
50	Stop washer	Steel
60	Stem	Steel
70	Fitting	Brass
80	O-ring	NBR
90	Hand lever	Zinc die-casting
100	O-ring	NBR
110	Bolt	
120	Washer	
130	O-ring	NBR
140	Stop pin	

\*Standard (can vary according to nominal width), other materials on request.  
Due to the design, not all items are used for all nominal widths.



Please ask separately for requirements that exceed the standard conditions of use listed in this data sheet.

As a matter of principle, the safety information provided in the operating and servicing manual must be observed!

The operating and servicing manuals as well as the approval certificates can be downloaded at [www.von-scheven.de](http://www.von-scheven.de).

We reserve the right to carry out technical modifications.