



BV36

Wafer type Disc check valves



GENERAL SPECIFICATIONS

- Belven wafer type disco check valve
- To be mounted between flanges
Available flange connections : PN6-PN10-PN16-PN25-PN40-PN63-PN100-PN160
A150-A300-A600-A900-JIS 10K
- Available sizes : DN15 up to DN300
- Face to face dimension according to EN 558 series 49
- Metal or plastic body with a range of different seat materials
- Low opening pressure and low pressure drops
- Suitable for use in pipeline systems for the transport of liquid or gaseous fluids
- The valves are not suitable for solids

CONNECTIONS

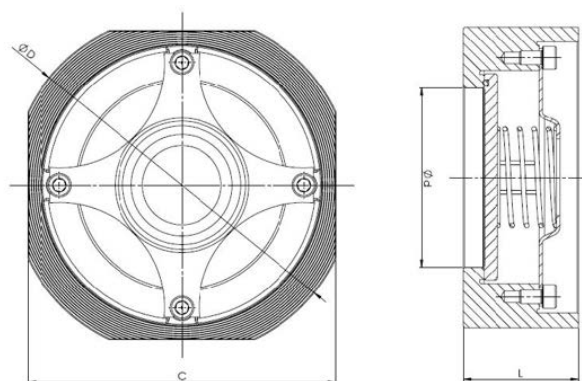
The BV36 is a wafer type check valves that has to be mounted between flanges

The BV36 will be centered between the flanges via the outer diameter of the valve and will be kept in position by tightening the flanges with the necessary tightening torques

An overview of the possible connections can be consulted in the dimension table on page 5 and page 6

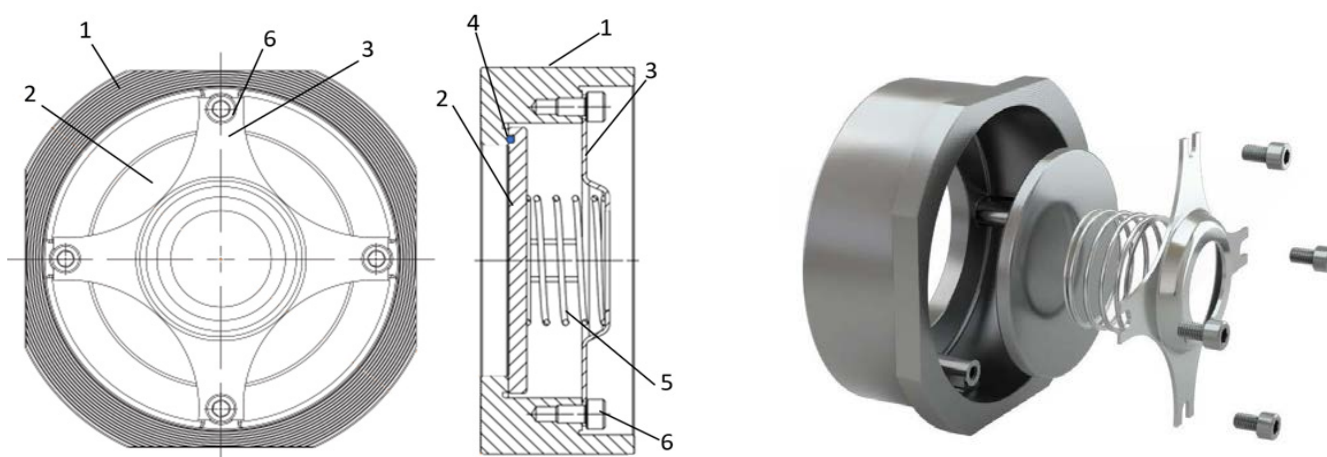
Please check page 6 for an overview of the possible connections of our stock items

DIMENSIONS AND WEIGHTS



DN	INCH	ØD	Ød	C	L	Weight (kg)
15	1/2"	53	15	43	16	0.10
20	3/4"	63	20	53	19	0.16
25	1"	73	25	63	22	0.28
32	1 1/4"	84	30	75	28	0.52
40	1 1/2"	94	38	86	31.5	0.70
50	2"	107	47	95	40	1.10
65	2 1/2"	126	62	115	46	1.58
80	3"	145	77	131	50	1.78
100	4"	164	96	150	60	3.30

MATERIALS



ITEM	NAME	AVAILABLE MATERIALS	TEMPERATURE RANGE
1	Body	Stainless steel A351 CF8M (1.4408)	
2	Disc	Stainless steel A351 CF8M (1.4408) for metal seated Stainless steel AISI 316 Ti (1.4571) for soft seated	
3	Spring cross	Stainless steel AISI 316 (1.4436)	
4	Seat*	Metal seat (Leakrate $\geq G$)	-20°C ... +300°C
		EPDM (Leakrate A)	-20°C ... +150°C
		NBR (Leakrate A)	-20°C ... +100°C
		FKM (Leakrate A)	-15°C ... +200°C
		PTFE (Leakrate A)	-20°C ... +250°C
5	Spring	Stainless steel AISI 316 (1.4436)	
6	Allen bolt	Stainless steel AISI A4-70	

* Seats for valves up to and including DN 300 comply with the following approvals / conformities:

NBR: DIN EN 549, BAM, REACH, RoHS

EPDM: KTW UBA, DVGW W 270, WRAS, NSF, FDA, BfR XXI Kat. 4, ADI-free, 3A, USP Cl. 6, BAM, REACH, RoHS

FKM: DIN EN 549, ADI-free, REACH, RoHS

PTFE: KTW UBA, DVGW W 270, WRAS, FDA, BfR, ADI-free, EU 10/2011, 3A, USP Cl. 6, REACH, RoHS

TESTING

The BV36 valve are tested according to EN 12266-1

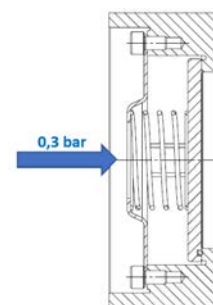
The hydraulic test pressure of the body is 1,5x of the pressure class

The hydraulic test pressure of the leakage test is 1,1 of the pressure class

Leakage rate : tight shut-off according to EN 12266-1 A.5 Rate A for soft seat

EN 12266-1 A.5 Rate G for metal seat

In order to achieve the specified leakage rate, a back pressure of 0,3 bar is required



BV36 - 66 66 E				TYPE	
				BV36	Wafer type disco check valve with spring
				BODY	
				66	Stainless steel A351 CF8M (1.4408)
				DISC	
				66	Stainless steel A351 CF8M (1.4408) /AISI316 Ti(1.4571)
				SEAT	
				M	Metal seated
				E	EPDM
				B	NBR
				V	FKM
				T	PTFE

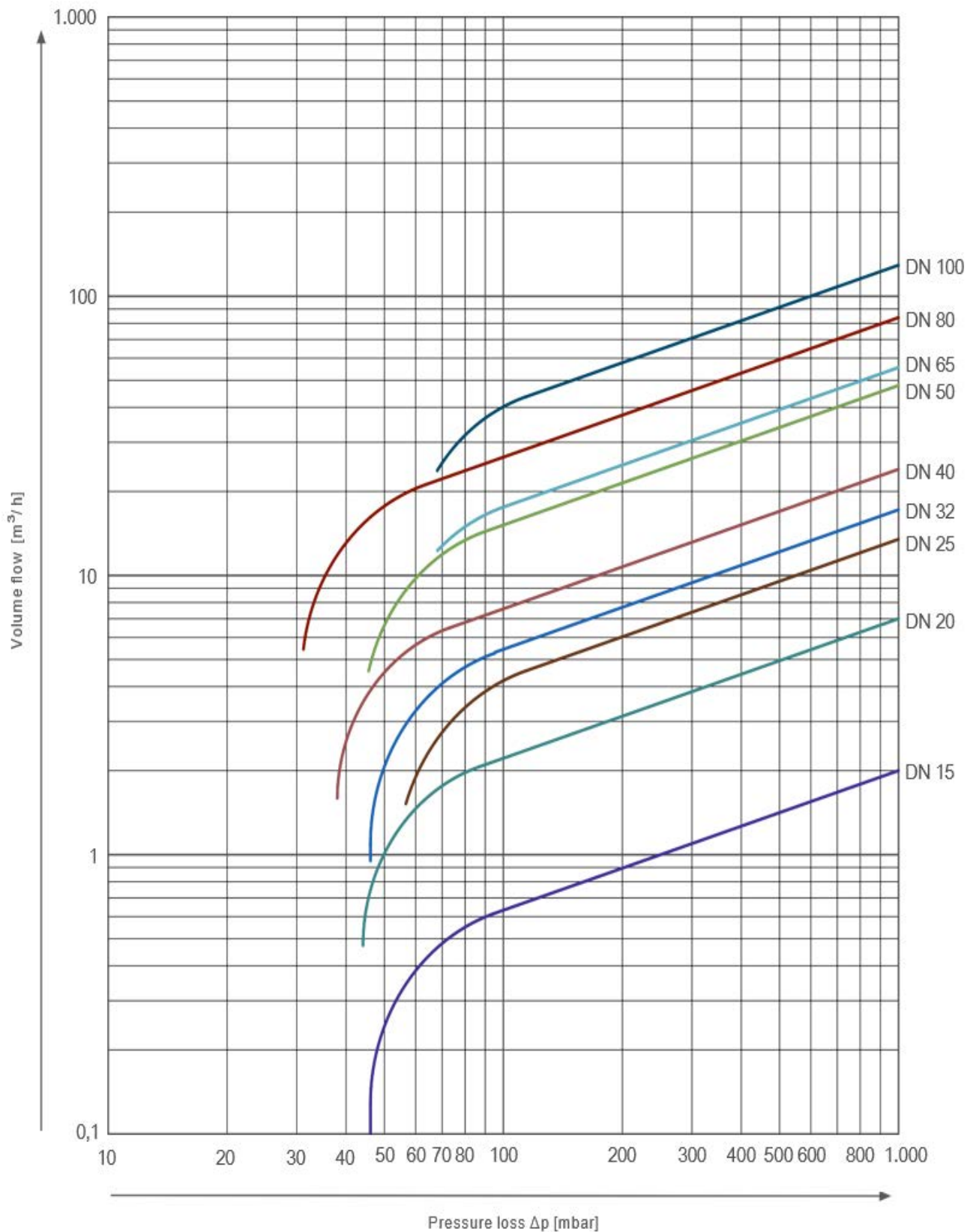
CODIFICATION OF THE MOST USED VALVES

Belven code	BV36-6666M	BV36-6666B	BV36-6666E	BV36-6666T	BV36-6666V
Body	Stainless steel CF8M	Stainless steel CF8M	Stainless steel CF8M	Stainless steel CF8M	Stainless steel CF8M
Disc	Stainless steel CF8M	Stainless steel AISI 316 Ti	Stainless steel AISI 316 Ti	Stainless steel AISI 316 Ti	Stainless steel AISI 316 Ti
Seat	Metal seated	NBR	EPDM	PTFE	FKM

KV-VALUES AND MINIMUM OPENING PRESSURE

The below values are for our standard BV36-PN40 valves

SIZE		KV-VALUE	OPENING PRESSURE (mbar)			
DN	INCH		<- ->	↑	↓	↑ without spring
15	1/2"	2	~ 47	~ 51	~ 44	~ 4
20	3/4"	7	~ 44	~ 48	~ 39	~ 4
25	1"	13	~ 57	~ 61	~ 53	~ 4
32	1 1/4"	17	~ 47	~ 52	~ 41	~ 5
40	1 1/2"	23	~ 38	~ 43	~ 32	~ 5
50	2"	48	~ 45	~ 52	~ 38	~ 7
65	2 1/2"	55	~ 50	~ 55	~ 44	~ 5
80	3"	83	~ 31	~ 39	~ 23	~ 7
100	4"	127	~ 55	~ 65	~ 45	~ 10



The diagram values are valid for water at a temperature of 20 °C and for valves suitable for flanges in accordance with PN 10- PN 40. At the opening of the valve, the curves apply to operation in horizontal pipelines. For calculations for other fluids or temperatures, please contact your Belven representative.

FLANGE CONNECTIONS OF THE STOCK ITEMS

Belven ref.	Belven code	Max. press.	Suitable for between flanges									
		(bar)	PN6	PN10	PN16	PN25	PN40	PN63	A150	A300	A600	JIS 10K
365077B00015	BV36-6666B-PN40 DN015	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077B00020	BV36-6666B-PN40 DN020	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077B00025	BV36-6666B-PN40 DN025	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077B00032	BV36-6666B-PN40 DN032	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077B00040	BV36-6666B-PN40 DN040	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077B00050	BV36-6666B-PN40 DN050	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077B00065	BV36-6666B-PN40 DN065	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077B00080	BV36-6666B-PN40 DN080	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077B00100	BV36-6666B-PN40 DN100	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077E00015	BV36-6666E-PN40 DN015	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077E00020	BV36-6666E-PN40 DN020	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077E00025	BV36-6666E-PN40 DN025	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077E00032	BV36-6666E-PN40 DN032	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077E00040	BV36-6666E-PN40 DN040	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077E00050	BV36-6666E-PN40 DN050	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077E00065	BV36-6666E-PN40 DN065	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077E00080	BV36-6666E-PN40 DN080	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077E00100	BV36-6666E-PN40 DN100	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077M00015	BV36-6666M-PN40 DN015	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077M00020	BV36-6666M-PN40 DN020	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077M00025	BV36-6666M-PN40 DN025	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077M00032	BV36-6666M-PN40 DN032	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077M00040	BV36-6666M-PN40 DN040	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077M00050	BV36-6666M-PN40 DN050	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077M00065	BV36-6666M-PN40 DN065	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077M00080	BV36-6666M-PN40 DN080	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077M00100	BV36-6666M-PN40 DN100	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077T00015	BV36-6666T-PN40 DN015	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077T00020	BV36-6666T-PN40 DN020	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077T00025	BV36-6666T-PN40 DN025	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077T00032	BV36-6666T-PN40 DN032	40	No	Yes	Yes	Yes	Yes	No	No	No	No	No
365077T00040	BV36-6666T-PN40 DN040	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077T00050	BV36-6666T-PN40 DN050	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077T00065	BV36-6666T-PN40 DN065	40	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
365077T00080	BV36-6666T-PN40 DN080	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
365077T00100	BV36-6666T-PN40 DN100	40	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No

FLANGE CONNECTIONS OF OTHER STANDARD ITEMS

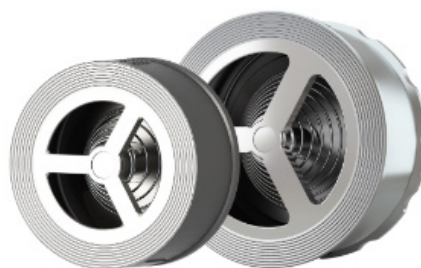
Belven ref.	Belven code	Max. press.	Suitable for between flanges									
		(bar)	PN6	PN10	PN16	PN25	A150	PN63	A150	A300	A600	JIS 10K
367077B00015	BV36-6666B-A150 DN015	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00020	BV36-6666B-A150 DN020	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00025	BV36-6666B-A150 DN025	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00032	BV36-6666B-A150 DN032	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00040	BV36-6666B-A150 DN040	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00050	BV36-6666B-A150 DN050	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00065	BV36-6666B-A150 DN065	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00080	BV36-6666B-A150 DN080	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077B00100	BV36-6666B-A150 DN100	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00015	BV36-6666E-A150 DN015	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00020	BV36-6666E-A150 DN020	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00025	BV36-6666E-A150 DN025	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00032	BV36-6666E-A150 DN032	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00040	BV36-6666E-A150 DN040	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00050	BV36-6666E-A150 DN050	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00065	BV36-6666E-A150 DN065	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00080	BV36-6666E-A150 DN080	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077E00100	BV36-6666E-A150 DN100	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00015	BV36-6666M-A150 DN015	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00020	BV36-6666M-A150 DN020	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00025	BV36-6666M-A150 DN025	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00032	BV36-6666M-A150 DN032	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00040	BV36-6666M-A150 DN040	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00050	BV36-6666M-A150 DN050	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00065	BV36-6666M-A150 DN065	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00080	BV36-6666M-A150 DN080	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077M00100	BV36-6666M-A150 DN100	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00015	BV36-6666T-A150 DN015	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00020	BV36-6666T-A150 DN020	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00025	BV36-6666T-A150 DN025	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00032	BV36-6666T-A150 DN032	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00040	BV36-6666T-A150 DN040	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00050	BV36-6666T-A150 DN050	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00065	BV36-6666T-A150 DN065	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00080	BV36-6666T-A150 DN080	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No
367077T00100	BV36-6666T-A150 DN100	50	Yes	Yes	Yes	Yes	Yes	No	Yes	yes	No	No

OPTIONS

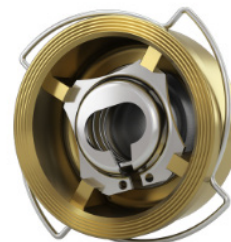
- Cleaning: free of oil and grease / silicone
- Seals with additional approvals
- Seals glued in for vacuum applications up to 0.1 bara
- With end caps for threaded connections



Heavy duty :
for high pressures up to 160 bar



Larger sizes :
DN125 up to DN300



Brass valves for HVAC



Blokhuisstraat 24 | 2800 Mechelen | Belgium

tel.: 0032 15 29 40 70

info@belven.com

www.belven.com

www.belven.be

