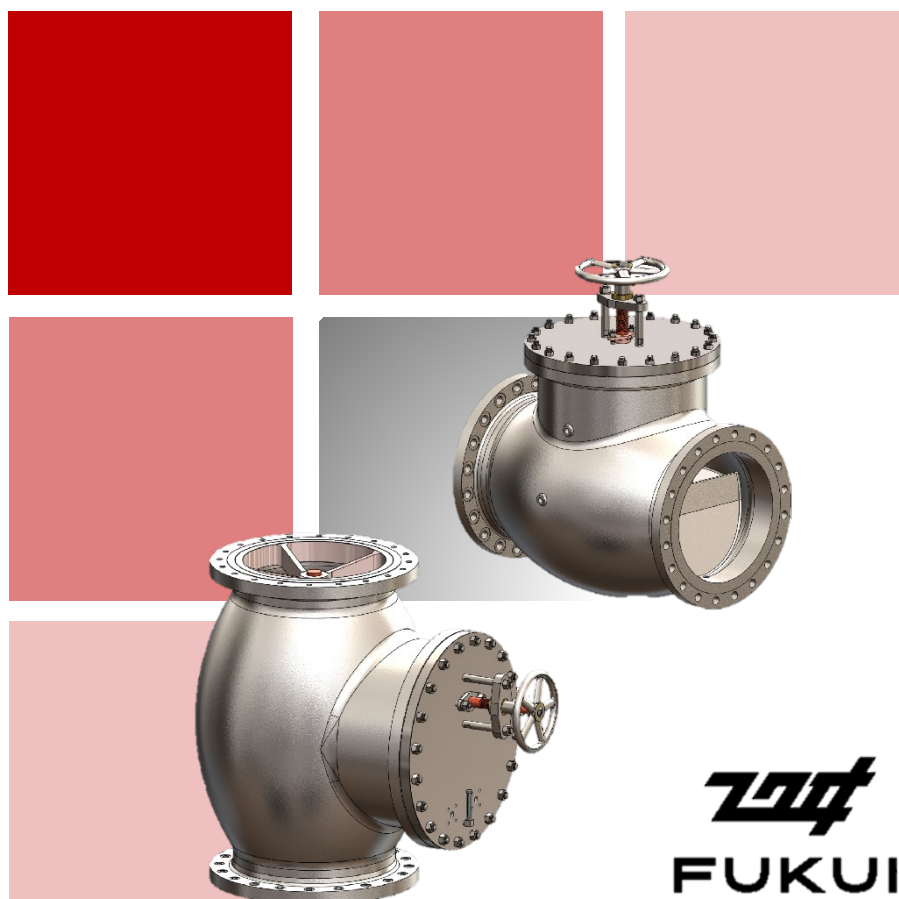




RHK, RVK Series

Contents

◆ Features	5
◆ About HEI standards	5
◆ Type code.....	5
◆ Structure.....	2
◆ Cross-sectional View and Standard Material.....	3
◆ Actual Area	5
◆ Pressure–temperature Rating	5
◆ Dimensions and Weight	6

◆ Features

The RHK and RVK series are atmospheric release valves for heat exchangers, to which the HEI standards are applied. The RHK is intended for horizontal flow direction; the RVK for vertical flow direction.

◆ About HEI standards

Atmospheric release valves specified in the HEI standards shall meet the following requirements.

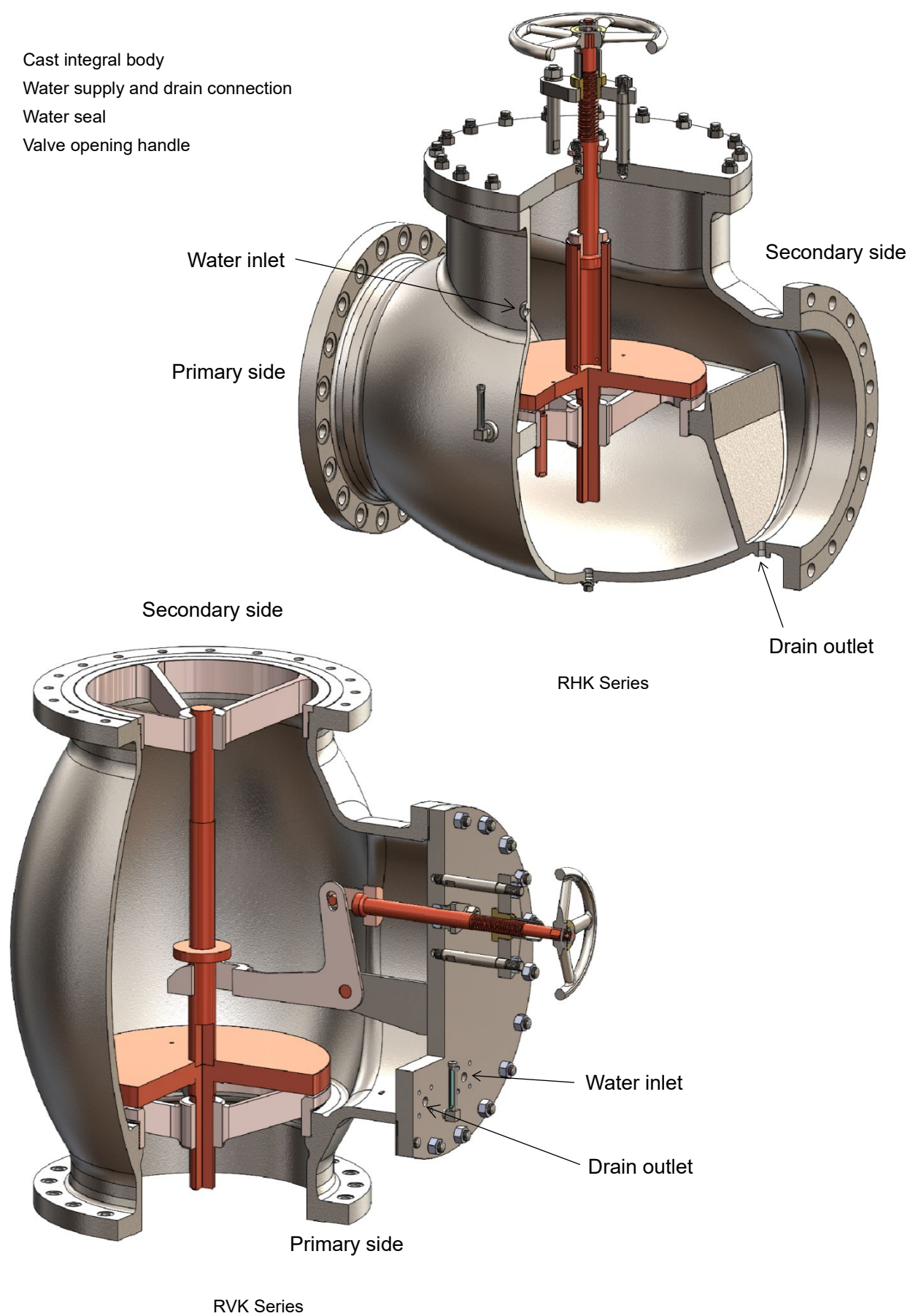
- ◆ The periphery of the disc shall be water-sealed.
- ◆ A manual opening and closing mechanism shall be provided.
- ◆ Valves shall be selected so as not to exceed 0.069 MPa (10 psig).

◆ Type code

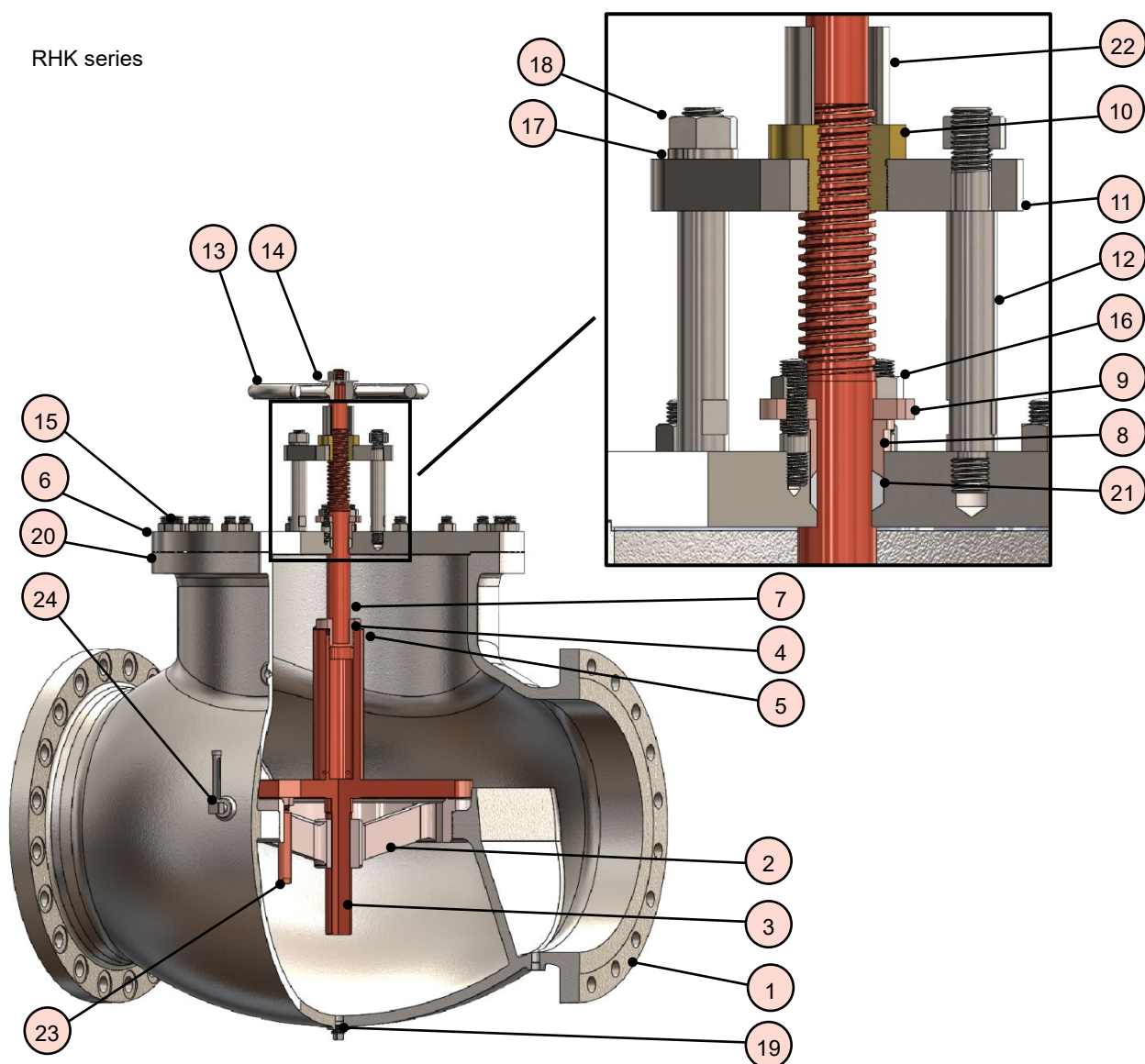
RVK	1	6	1-		F				
					Material code				
					F	Cast iron		W	Steel plate welded
					S	SCPH2 or A216-WCB		—	—
				Inlet flange class (only when different) Same code as pressure class					
				Connection code					
				1-	ASME Flange		4-	JIS Flange	
				2-	JPI Flange		—	—	
				Temperature class code Unit: °C (F°)					
				6	-29 (-20) ≤ T < 232 (450)				
				Pressure class code					
				1	Class 150 or JIS 10K or JIS B 8210 10K		3	Class 300 or JIS 30K or JIS B 8210 30K	
				2	JIS 20K or JIS B 8210 20K				
Type code									
RVK	Vertical type			RHK	Horizontal type				

Structure

- ◆ Cast integral body
- ◆ Water supply and drain connection
- ◆ Water seal
- ◆ Valve opening handle



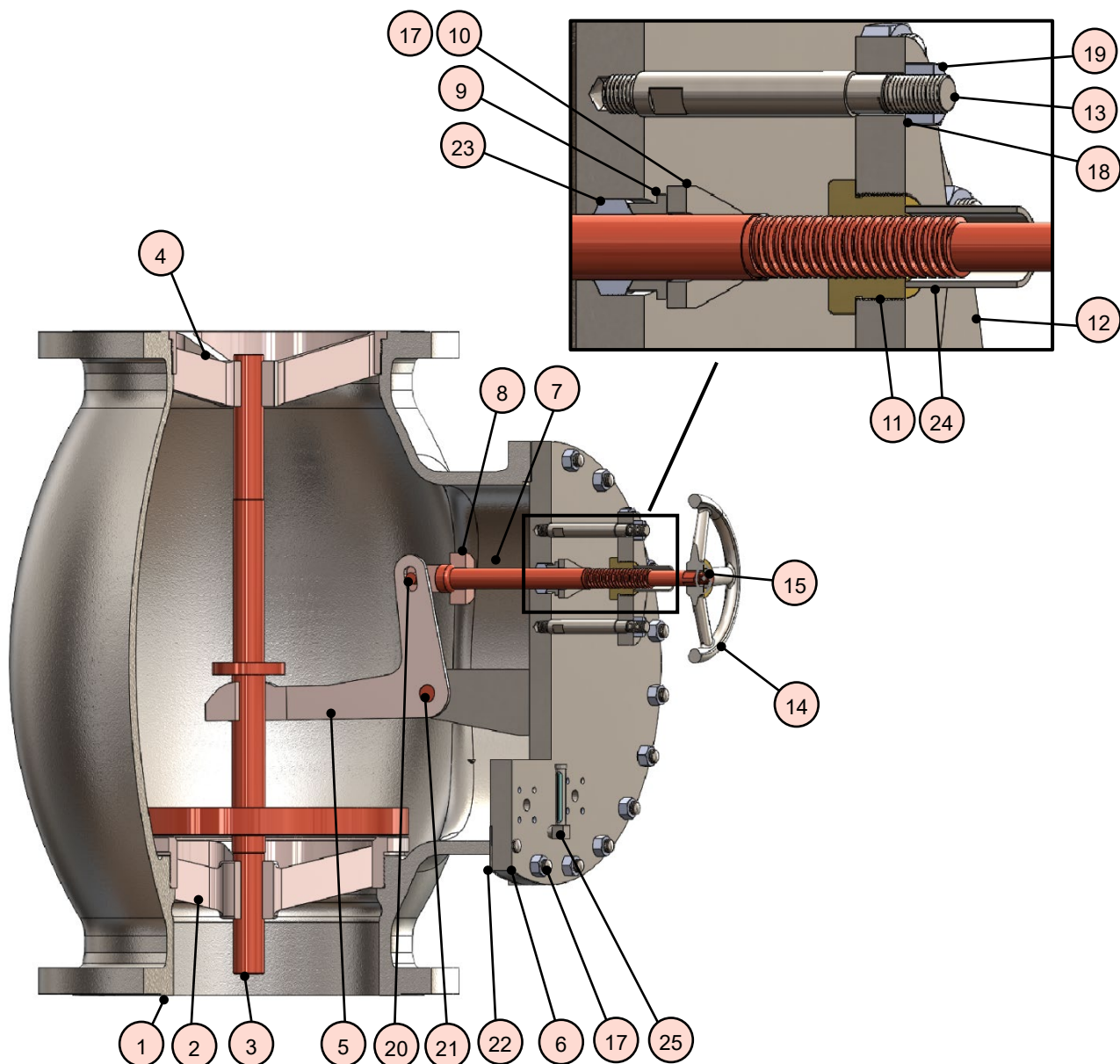
Cross-sectional View and Standard Material



No.	Part name	Material	No.	Part name	Material
1	Body	FC200 or A216-WCB or SCPH2	13	Handwheel	FC200
2	Nozzle	SCS13A	14	Nut	SS400
3	Disc	SUS304	15	Stud bolt, nut	S20C
4	Bush	SUS304	16	Stud bolt, nut	S20C
5	Washer	SUS304	17	Washer	SWRH57
6	Cover flange	SM400B	18	Nut	SS400
7	Stem	SUS403	19	Plug	SUS304
8	Gland	SUS403	20	Gasket	V6502
9	Gland arm	SS400	21	Gland packing	V6232
10	Sleeve	SUS304	22	Stopper	SGP
11	Stem arm	SS400	23	Stopper	SUS340
12	Pillar	SS400	24	Water gauge	SUS304

* This shows a general structure. The structure may vary depending on the size.

RVK series



No.	Part name	Material	No.	Part name	Material
1	Body	FC200 or A216-WCB or SCPH2	14	Handwheel	FC200
2	Nozzle	SCS13A	15	Nut	SS400
3	Disc	SUS304	16	Stud bolt, nut	SS400
4	Guide	SCS13	17	Stud bolt, nut	SS400
5	Lift lever	SS400	18	Washer	SWRH57
6	Cover flange	SMB440B	19	Nut	SS400
7	Stem	SUS403	20	Pin	SUS304
8	Lift fork	SUS403	21	Pin	SUS304
9	Gland	SUS403	22	Gasket	V6502
10	Gland arm	SS400	23	Gland packing	V6137
11	Sleeve	SUS304	24	Stopper	SGP
12	Stem arm	SS400	25	Water gauge	SUS304
13	Pillar	SS400	—	—	—

* This shows a general structure. The structure may vary depending on the size.

Actual Area

Size	Seat diameter mm	Nominal lift mm	Discharge area mm ²
6*6	150	21	9896
8*8	200	28	17592
10*10	250	35	27488
12*12	300	42	39584
14*14	335	47	49464
16*16	390	55	67387
18*18	440	62	58702
20*20	490	69	106217
24*24	590	84	155697
30*30	740	104	241776

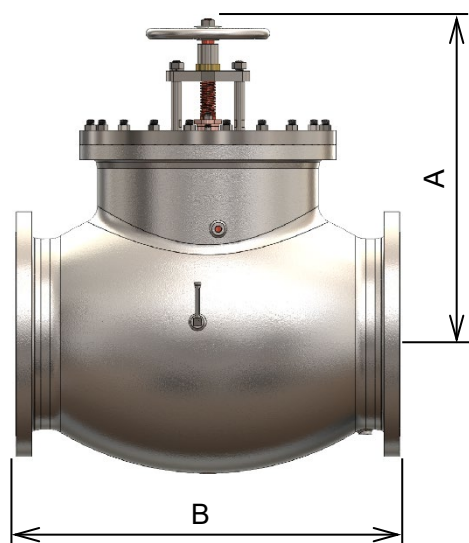
Pressure–temperature Rating

Size	Pressure (MPa)		Temperature (°C)
	Minimum	Maximum	
6*6	FV	0.04 MPa	120
8*8			
10*10			
12*12			
14*14			
16*16			
18*18			
20*20			
24*24			
30*30			

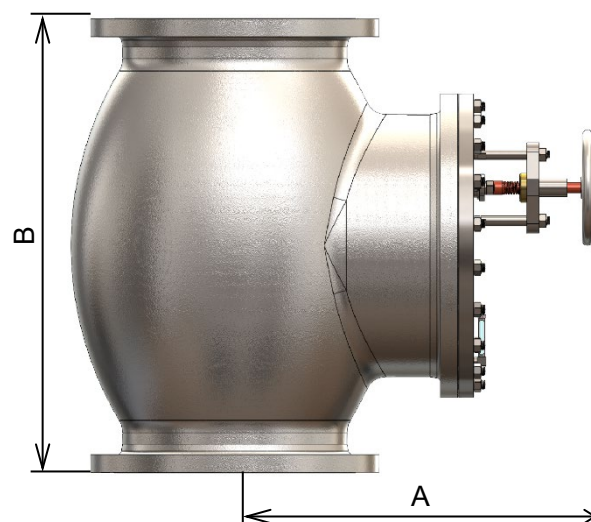
* The flow determining pressure is 0.17024 MPa (10 + 14.7 psi), as specified by the HEI standards.

* The starting pressure is 0.002–0.006 MPa (2–6 kPa).

◆ Dimensions and Weight



RHV Series



RVK Series

Dimensions and Weight						Units: mm, kg
Type	Size	Flange Class		Dimensions		Approximate weight
		Inlet	Outlet	A	B	
RHK	6×6	150	150	395	365	80
	8×8			400	495	110
	10×10			490	622	225
	12×12			545	699	305
	14×14			605	787	465
	16×16			755	914	705
	18×18			857	914	750
	20×20			890	1100	980
	24×24			973	1330	1600
	30×30			1211	1400	3000
RVK	6×6	150	150	395	356	80
	8×8			400	495	110
	10×10			490	622	225
	12×12			545	699	305
	14×14			605	787	465
	16×16			755	914	705
	18×18			840	914	730
	20×20			890	1100	980
	24×24			980	1330	1470
	30×30			1050	1400	2700



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The product photos, structures, etc. in this document show representative examples.
Product specifications in the catalog are subject to change without notice for product improvement or quality enhancement.