



RSA-VB-RSC / RSA-VB-FLG

VÁLVULAS DE BALANCEAMENTO ROSCA OU FLANGEADA



DESCRIÇÃO

As válvulas de balanceamento são utilizadas para promover uma distribuição igualitária do fluxo de água no sistema. As válvulas são fornecidas nos diâmetros de 1/2" até 2" em rosca e a partir de 2 1/2" as válvulas são flangeadas. São válvulas de fácil calibração e garantem alta performance na distribuição de água gelada e quente.

CARACTERÍSTICAS

Corpo da Válvula	Ferro Fundido
Conexão	Rosca BSP até 2" e Flanges DN 20-50: ISO 7005-2 e SS-EN 1092-2. Orifícios dos parafusos de acordo com a Classe 150 ASME/ANSI B16.42. DN 65-300: Classe 150 ASME/ANSI B16.42.
Link do conector	PP
Cone da Válvula	Liga de cobre
Veio da Válvula	Liga de cobre
Max. Pressão do trabalho:	Classe 150 (PN 16)
Erro do Fluido	± 5% (abertura de 50% a 100%)
Temperatura de trabalho	-20 - 120 graus Temperatura mais alta
Aplicação	Em sistemas de aquecimento, resfriamento e condensação (água ou solução com anticongelantes).

Application:

Used for pre-set control of pipeline flow, this series of products is mainly used to solve the problem of hydraulic imbalance in the fluid transmission and distribution network. According to the system design, it is determined that the branch water supply is constant under the premise of different openings and pressure differences.

The RSA.. balancing valve delivers accurate hydronic performance in an impressive range of applications. Ideally suited for use on the secondary side in heating and cooling systems, and tap water systems.

Features

- >> The static balance valve has precise design, simple structure, and accurate parameters. After the product is installed, the flow should be debugged to meet the flow under the premise of setting the pressure difference. It is an energy-saving product.
- >> Used in heating or cooling water system.
- >> Shutdown function.
- >> The maximum stroke locking function, when the system is commissioned, can be turned on to provide convenience for future pipeline maintenance and repair. After maintenance or repair, the valve can be directly restored to the set maximum stroke to avoid secondary debugging.
- >> The valve carries a measurement joint, which is convenient for quick connection with the measurement equipment and saves debugging time.
- >> Can be installed in water supply or return water pipeline.

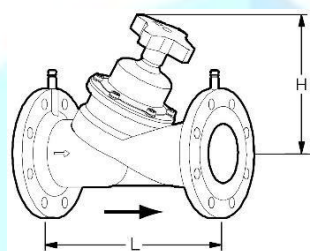
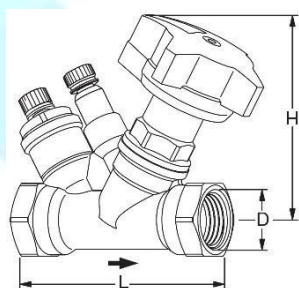
Material

DN	DN15-DN50	DN50-DN300
Body	Brass	Nodular cast iron
Seals	EPDM	EPDM
Spool	Brass	Brass

Permissible media

Medium	Low temperature hot water, medium temperature hot water, chilled water, water with antifreeze Recommendation: Water treatment
Medium temperature	-10~110℃
PN class	PN16

Types and Technical data:



Product number	DN	Connections		PN	L	H
RSA-VB-RSC-15	15	1/2 in	Internal thread (BSP)	PN16	80	114
RSA-VB-RSC-20	20	3/4 in			85	116
RSA-VB-RSC-25	25	1 in			98	119
RSA-VB-RSC-32	32	1 1/4 in			110	136
RSA-VB-RSC-40	40	1 1/2 in			120	138
RSA-VB-RSC-50	50	2 in			150	148
RSA-VB-FLG-65	65	Flanged (ISO7005-2/GB 17241.6)			290	285
RSA-VB-FLG-80	80				310	324
RSA-VB-FLG-100	100				350	355
RSA-VB-FLG-125	125				400	410
RSA-VB-FLG-150	150				480	477
RSA-VB-FLG-200	200				600	613
RSA-VB-FLG-250	250				730	740
RSA-VB-FLG-300	300				850	828
RSA-VB-FLG-350	350				980	970
RSA-VB-FLG-400	400				1100	1100

Kv values

Internal thread (DN15-50)

Product number	DN	No of turns										
		0.25	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
RSA-VB-RSC-15	DN15	0.21	0.35	0.48	0.55	0.74	0.97	1.36	1.72	2.06	2.36	2.72
RSA-VB-RSC-20	DN20	0.34	0.51	0.71	0.92	1.15	1.35	1.62	2.05	2.60	3.13	3.67
RSA-VB-RSC-25	DN25	0.55	0.94	1.54	2.07	2.57	3.10	3.70	4.43	5.5	5.94	6.73
RSA-VB-RSC-32	DN32	0.59	1.04	2.05	2.91	4.03	5.10	6.02	6.86	7.65	8.63	9.70
RSA-VB-RSC-40	DN40	1.22	2.65	4.14	5.75	7.35	8.72	10.0	11.2	12.35	13.8	15.2
RSA-VB-RSC-50	DN50	-	2.70	5.05	7.15	9.15	11.66	14.2	16.3	18.52	20.7	22.9

Product number	DN	No of turns										
		5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	
RSA-VB-RSC-15	DN15	3.05	3.42	3.70	3.90	-	-	-	-	-	-	-
RSA-VB-RSC-20	DN20	4.25	4.90	5.45	5.70	-	-	-	-	-	-	-
RSA-VB-RSC-25	DN25	7.33	7.90	8.42	8.90	-	-	-	-	-	-	-
RSA-VB-RSC-32	DN32	10.72	11.7	12.8	13.9	15.0	16.14	17.1	18.1	18.90	19.4	-
RSA-VB-RSC-40	DN40	17.36	19.4	20.9	22.4	23.6	24.80	25.4	26.0	26.82	27.5	-
RSA-VB-RSC-50	DN50	24.52	26.0	27.7	29.4	31.1	32.75	34.7	36.7	37.96	38.8	-

Flanged (DN65-400)

No of turns	Product number									
	RSA-VB-FLG-65	RSA-VB-FLG-80	RSA-VB-FLG-100	RSA-VB-FLG-125	RSA-VB-FLG-150	RSA-VB-FLG-200	RSA-VB-FLG-250	RSA-VB-FLG-300	RSA-VB-FLG-350	RSA-VB-FLG-400
	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400
0.5	1.8	2	2.6	5.4	6.6	-	-	-	-	-
1	3.4	4	6	10.4	12	-	-	-	-	-
1.5	4.8	6	9	15.4	22	-	-	-	-	-
2	6.6	8	11.5	21.5	40	40	90	-	-	-
2.5	9.3	11	16	27	65	50	110	-	-	-
3	16.3	14	26	36	100	65	140	150	109	125
3.5	25.5	19.6	44	55	135	90	195	230	129	148
4	35.4	29	63	83	169	120	255	300	148	171
4.5	44.5	41	80	114	207	165	320	370	170	208
5	52	55	98	141	242	225	385	450	207	264
5.5	60.6	68	115	167	279	285	445	535	254	326
6	66	80	132	197	312	340	500	620	302	386
6.5	73	92	145	220	340	400	545	690	352	449
7	77	103	159	249	367	435	590	750	404	515
7.5	80.6	113	175	276	391	470	660	815	471	590
8	85	120	190	300	420	515	725	890	556	680
9	-	-	-	-	-	595	820	970	784	890
10	-	-	-	-	-	650	940	1040	957	1140
11	-	-	-	-	-	710	1050	1120	1100	1250
12	-	-	-	-	-	765	1185	1200	1260	1400
13	-	-	-	-	-	-	-	1320	1420	1560
14	-	-	-	-	-	-	-	1370	1610	1730
15	-	-	-	-	-	-	-	1400	1760	1940
16	-	-	-	-	-	-	-	1450	1870	2140
17	-	-	-	-	-	-	-	-	1960	2280
18	-	-	-	-	-	-	-	-	2040	2410
19	-	-	-	-	-	-	-	-	2130	2530
20	-	-	-	-	-	-	-	-	2200	2630
21	-	-	-	-	-	-	-	-	-	2710
22	-	-	-	-	-	-	-	-	-	2780

Measuring accuracy

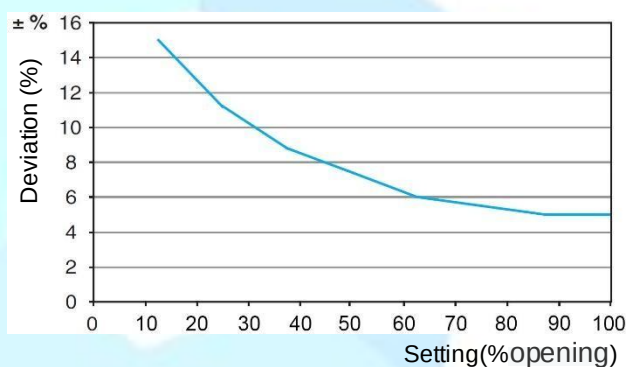
The zero position is calibrated and must not be changed.

Deviation of flow at different settings

The curve (Fig. 1) is valid for valves with normal pipe fittings (Fig.2). Try also to avoid mounting taps and pumps, immediately before the valve.

Fig. 1

DN15-50



DN65-400

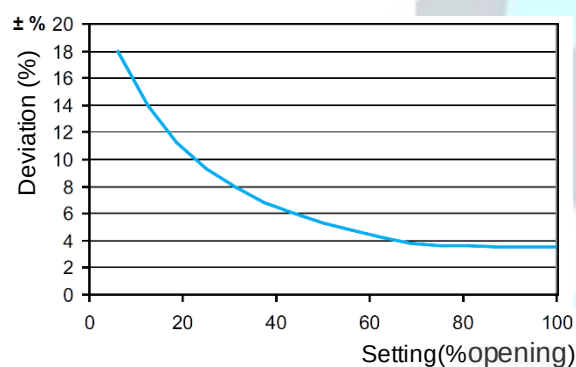
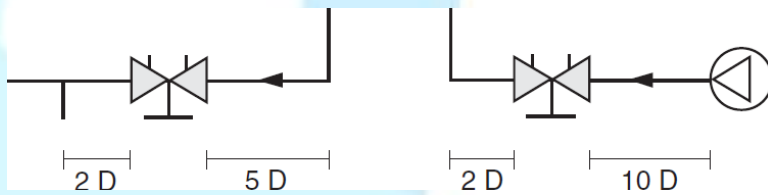


Fig.2



Adjust the scale of the handwheel according to the design requirements.

Exhaust devices should be installed in the system piping, and the system can contain air, which may cause media blockage, failure

of the adjustment function, or excessive noise;

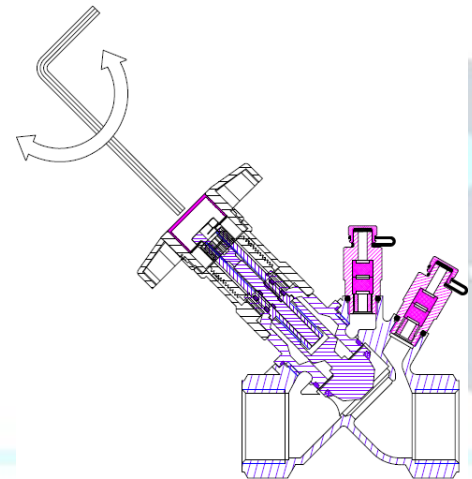
It is recommended to add a filter or clean the pipeline at the water inlet of the valve to avoid large particles of impurities blocking the valve control element;

Pay attention to the protection of the detection hole, if it is touched or deformed, it will cause leakage or difficult maintenance in the future.

Setting

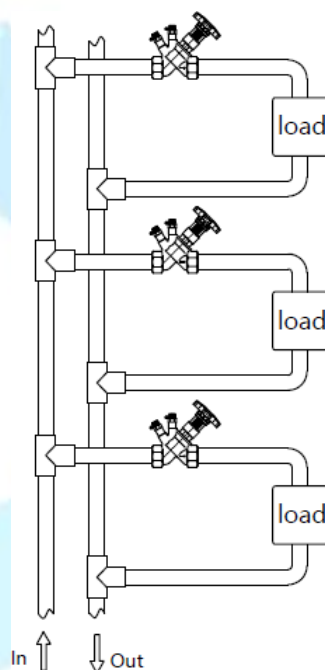
Adjust the scale of the handwheel according to the design requirements.

This valve has the function of presetting the maximum flow rate. Use a hexagonal wrench to rotate the maximum opening limit core clockwise, so that the maximum opening of the valve can be limited, and subsequent system maintenance will not require debugging.

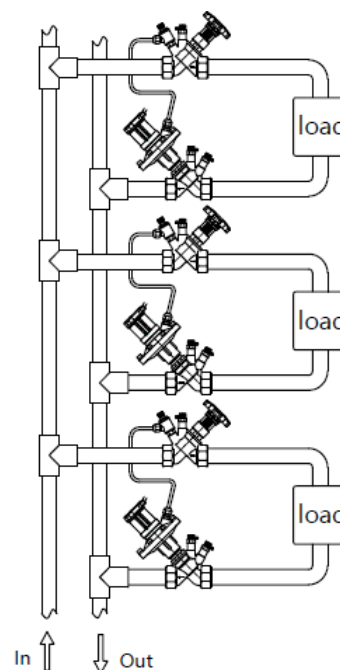


Application method:

The balance valve can be used alone to control the flow of the system, or it can be used in conjunction with the differential pressure valve. When the valve is installed, the water flow direction must be consistent with the direction of the arrow on the valve. In order to ensure the measurement accuracy, please ensure that there are straight pipe sections before and after the valve(Fig.2)



Installation method 1



Installation method 2