PRODUCT DATA SHEET

Ramén BAS 302 - Swing check valve

Ramén Valves
We know the flow

Ramén BAS check valve type 302 for liquid and gas flow. Designed for quick shut-off to prevent backflow and open at the smallest flowrates to maintain stable process conditions. Robust spring loaded, metal to metal design to withstand high temperature and harsh conditions. Still offering the highest possible leakage class and minimum maintenance.

Ramén BAS check valves are available in all commonly used steel alloys and titanium for industrial applications. The correct material is selected based on the application and media, in order to provide the best corrosion resistance and the longest lifetime. Wafer type design for easy mounting between flanges in DN80 to DN600.

Technical information	
Design	Spring loaded, metal seat
Connection	Wafer DN80 - DN300: PN10/16/25/40 - ANSI150/300 DN350 - DN600: PN10/16/25 - ANSI150
Nominal sizes	DN80-DN600 (3'' - 24'')
Material	Stainless steel 316 (EN 1.4408)
Nominal pressure	Up to PN40 PN according to EN 1092 (EN 1.4408)
Leakage class	Rate A acc. to EN12266-1
Temperature range	-50°C to 300°C
Approvals	CE-marked acc. to PED 2014/68/EU, Category III, Module B+D
Material options For PN as a function of operating temperature, contact Ramén Valves.	254 SMO: -50 to 300°C Duplex (1.4470): 20°C to 250 °C Super Duplex (EN 1.4469): -50 to 250 °C

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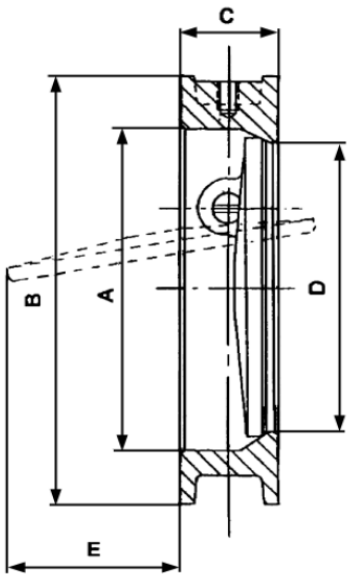
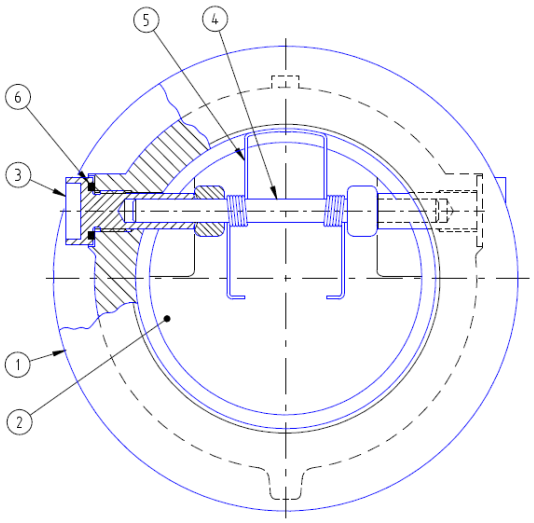
Type 302 - Spring loaded swing check valve





Parts and material of construction			
	No.	**Part**	**Material**
1	1	Body	EN 1.4408
2	1	Disc	EN 1.4408
3	1	Plug	EN 1.4404
4	1	Shaft	EN 1.4404
5	1	Spring	EN 1.4401
6	1	Plug seal	PTFE or Copper[1]

[1]High temperature (above 200°C) option

Dimensions									
Size DN	**PN**	**A [mm]**	**B [mm]**	**C [mm]**	**D [mm]**	**E [mm]**	**Kv[1] [m³/h]**	**Cv[1] [gpm]**	**Weight[2] [kg]**
80 (3”)	40	82	135	40	72	37	358	410	2,4
100 (4”)		102	158	40	88	49	560	650	3,1
125 (5”)		127	184	45	110	65	870	1010	4,5
150 (6”)		154	212	45	135	86	1250	1450	5,5
200 (8”)		204	268	60	182	116	2300	2670	10,8
250 (10”)		254	320	68	228	146	3500	4060	17
300 (12”)		304	378	78	277	176	5000	5800	27,5
350 (14”)	25	352	438	90	308	191	6900	8000	43
400 (16”)		402	490	100	360	226	9000	10440	56
500 (20”)		502	585	120	457	290	14250	16530	82
600 (24”)		602	685	130	553	350	20500	23780	138

[1] For water: ΔP = (Q/Kv)^2, with ΔP in bar and Q in m3/h. Cv = Kv*1,16
[2] Standard material

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Ordering code BAS 302

Code example EB302-1248-150
EB302-1948-500-X30

EB	Valve series (3-5)	Body & disc material (6-7)		End connection (8-9)		Size (10-12)	Options (13-14)	
EB	302	12	Stainless steel 316 (EN 1.4408)	02	Wafer PN 25 DN350 to DN600	080	10	Cu plug seal for high temperature
		16	254 SMO (EN 1.4547)	48	Wafer PN40 DN80 to DN300	100	20	Spring in Hastelloy C-276
		17	904L (EN 1.4458)			125	30*	Indicator
		19	Duplex (EN 1.4470)			150	40**	Counter weight damping
		20	Super Duplex (EN 1.4469)			200	50	Inductive position detector
						250	60***	DC type for low pressure
						300		
						350		
						400		
						450		
						500		
						600		

*Simple indicator/pointer in SST mounted on the shaft to indicate position of the disc
**A counter weight mounted on the shaft as damping, replacing spring load to prevent slamming due to large differences in flow.
***DC type uses only one (1) spring for easier opening at low pressure.

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