



AB VALVES GmbH
Manufacturer of Industrial Valves
and Relevant Equipments

Large - Orifice Air Valves (AVLO)





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Size: DN 200 - 1000 mm

Pressure: PN 6 - 40 bar

Pressure Test: DIN EN 12266-1

Flange Connection: DIN EN 1092-1 (DIN 2501)

Product features:

Large orifice Air Valve is recommended as part of safety system for large diameter and long length pipes. Under normal condition (positive pipeline pressure) this Air Valve is fully closed, it serves as vacuum breaker when the internal pressure in the pipe drops to negative value. For example in case of pipe burst situation with very rapid medium drainage, a huge volume of air insert to the pipe through the large orifice of the Air Valve to prevent damages or crumple of the pipes. After pressure increases in the pipe line, the air valve will be closed again. A pneumatic damper is located in the valve for adjusting valve closing speed to avoid damages in the pipe or valve due to rapid closing.

Applications:

This valve is applied for inlet large amount of air into pipelines in water supply networks.

One of important application is using this air valve after emergency shutdown valves.

Corrosion protection:

All casted and iron parts entirely covered by electrostatic epoxy-Powder with minimum 250 µ thickness.

Hydrostatic test Pressure (bar) according to DIN EN 12266-1

Nominal Pressure PN (bar)	Test Pressure	
	Body	Seat
6	12	6.6
10	17	11
16	25	17.6
25	37.5	27.5

Material specifications:

Part No.	Description	Material	Spare parts
1	Body	St.37 or GJS-400-15	
2	Flow control	-	
3	Inner Bush	Al.Bz	
4	Stud Bolts	1.4021	
5	Cylinder	St.60	
6	Piston	St.37	
7	Upper plate jack	St.37	
8	Exhaust	Brass	
9	Spring	1.4310	
10	Spring cap	St.37 or GJS-400-15	

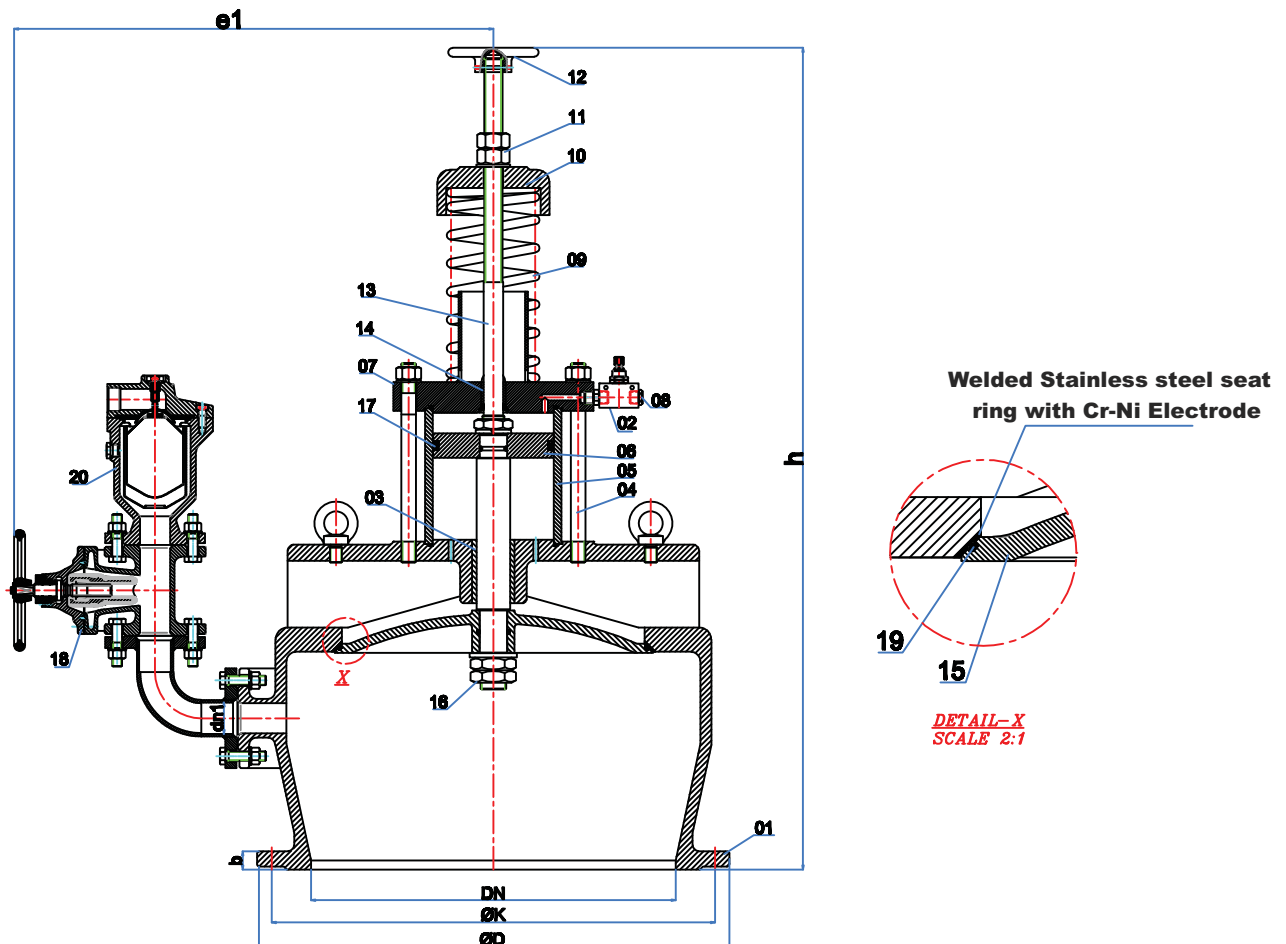
Part No.	Description	Material	Spare parts
11	Hexagon nut	Gal. St. / A2	•
12	Hand wheel	GJS-400-15	
13	Shaft	1.4021	
14	Jack upper plate bush	Al.Bz	
15	Disk	1.4301	
16	Eye bolt	Gal. St. / A2	•
17	Packing	-	•
18	Gate valve	AB VALVES	
19	O-ring	EPDM / NBR	•
20	Air valve	AB VALVES	



Dimensions:

DN (mm)	ØD (mm)	b (mm)	ØK (mm)	Ød2 (mm)	n	h (mm)	e1 (mm)	dn1 (mm)
200	340	24	295	22	8	652	—	50
250	395	26	350	22	12	888	460	50
300	445	26	400	22	12	907	490	50
350	505	26	460	22	16	907	675	50
400	565	26	515	26	16	1012	730	50
450	615	28	565	26	20	1012	755	50
500	670	28	620	26	20	1280	780	50
600	780	28	725	30	20	1357	810	50
700	895	30	840	30	24	1450	920	80
800	1015	32	950	33	24	1617	1056	80
900	1115	34	1050	33	28	1800	1427	150
1000	1230	34	1160	36	28	1950	1627	150

The above dimensions are related to PN10, for other sizes and pressures on request.



AB VALVES' PRODUCTS

Butterfly Valves Flange Type (BVF)
Butterfly Valves Wafer Type (BVW)
Butterfly Valves Wafer Type for Sea Water (BVS)
Gate Valves (GV)
Valves for Special Applications
Air Valves (AV)
Hydrants (HT)
Automatic Control Valves (RV)
Non-Return Valves (NV)
Strainers (STR)
Accessories
Actuators



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