

Product Introduction and Application

High-frequency Blowback Cleaning Valve is a key control valve at dry fly-ash removal system. It can generate high-frequency pulsed nitrogen (or other inert gas) flow in the ceramic or metal sintered filter to purge the fly-ash in order to avoid pressure differential increasing or even filter breaking. Currently it is mainly used at coal gasification field to clean the fly-ash inside synagas at dry filtration system. Since it has many good features like high cycle speed, good cleaning effect, long working life and reliable operation, it can be also used in many other industries such as cement, iron&steel, refinery and so on.

Product Features & Specification

- Fast Open-close: Valve can be operated within 0.2 second
- Nominal Size: 1.5" ~ 8" DN40~DN200
- Pressure Rating: ANSI Class150 ~ Class2500 LB
- Design Temperature: $\leq 300^{\circ}\text{C}$
- Valve Pattern: Angle
- Body Material: Forged or casting stainless steel
- Seat Material: PPL, PEEK, PBI
- Control Mode: Pneumatic
- Control Pressure: 0.6~ 1.0 Mpag.

Open-close Time:

Pressure Size	CLASS150 PN20	CLASS300 PN50	CLASS600 PN110	CLASS900 PN150	CLASS1500 PN260	CLASS2500 PN420
1.5"/DN40	$\leq 50\text{ms}$	$\leq 50\text{ms}$	$\leq 150\text{ms}$	$\leq 250\text{ms}$	$\leq 350\text{ms}$	$\leq 400\text{ms}$
2"/DN50	$\leq 50\text{ms}$	$\leq 50\text{ms}$	$\leq 150\text{ms}$	$\leq 250\text{ms}$	$\leq 350\text{ms}$	$\leq 400\text{ms}$
3"/DN80	$\leq 150\text{ms}$	$\leq 150\text{ms}$	$\leq 250\text{ms}$	$\leq 250\text{ms}$	$\leq 350\text{ms}$	$\leq 400\text{ms}$
4"/DN100	$\leq 250\text{ms}$	$\leq 250\text{ms}$	$\leq 500\text{ms}$	$\leq 650\text{ms}$	$\leq 750\text{ms}$	$\leq 850\text{ms}$
6"/DN150	$\leq 300\text{ms}$	$\leq 400\text{ms}$	$\leq 600\text{ms}$	$\leq 750\text{ms}$	$\leq 850\text{ms}$	$\leq 850\text{ms}$
8"/DN200	$\leq 300\text{ms}$	$\leq 400\text{ms}$	$\leq 600\text{ms}$	$\leq 750\text{ms}$	$\leq 850\text{ms}$	$\leq 900\text{ms}$



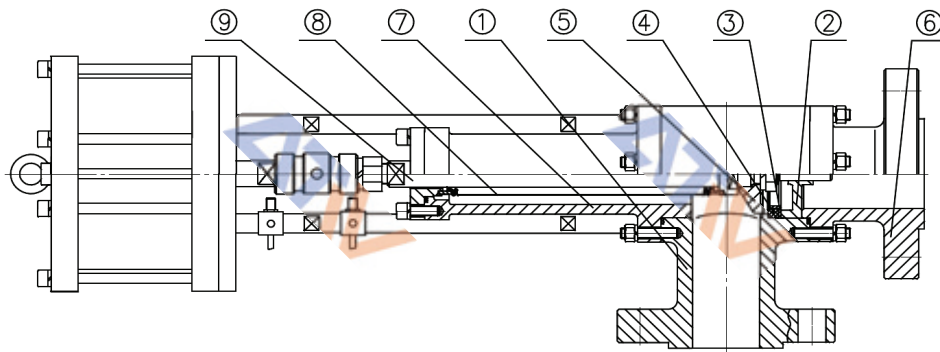
**Patent of invention,
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Manufacturing Specifications

Design Standard: ASME B16.34

Inspection Standard: ASME B16.104

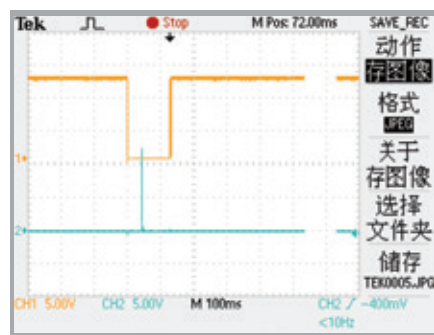
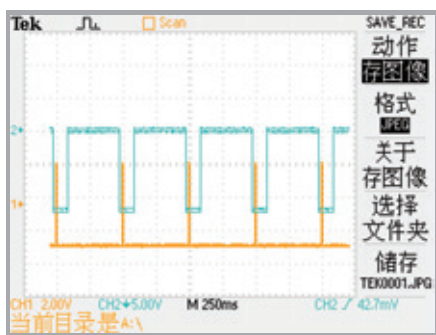
Flange Standard: ASME B16.5



Material Sheet

Code		1	2	3	4	5	6	7	8	9
Name		Body	Guide	Seat Ring	Seat	Disc	Out Flange	Cap	Bellows	Stem
Code	01	F304	630	630	PBI/PEEK/PPL	630	F304	F304	316L/316Ti	630
	02	F316	630	630	PBI/PEEK/PPL	630	F316	F316	316L/316Ti	630

Open-close Time Test



Test result: In the high pressure condition, the whole open-close-open time of 3" Class 900 valve is only 104ms



Low Pressure Test

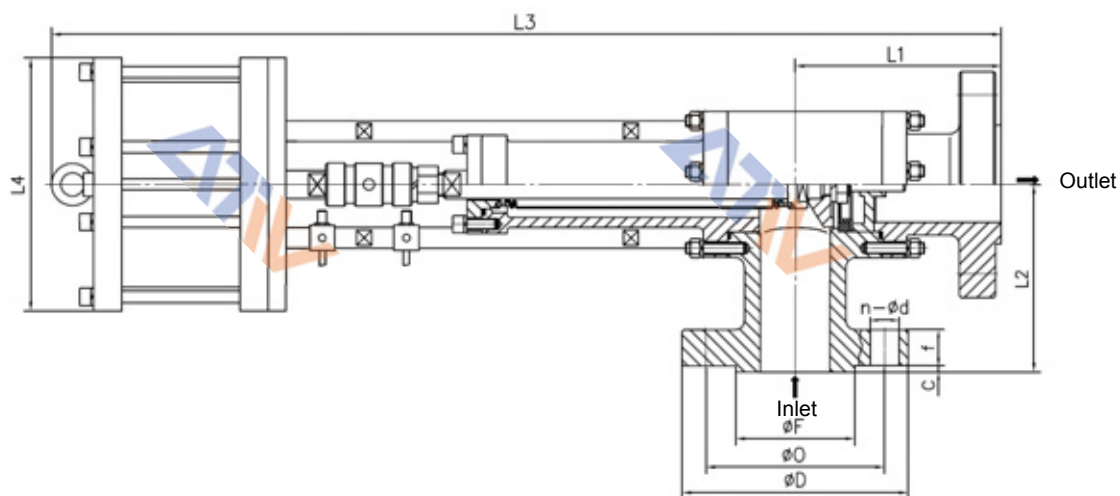


High Pressure Test

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External Dimensions



Pressure Rating	Nominal Diameter		External Dimensions (mm)										Valve Weight (kg)
	NPS (in)	DN (mm)	L1	L2	L3	L4	D	O	F	C	f	n-φd	
CLASS150 PN20	2	50	140	140	750	120	150	120.5	92	2	17.5	4~18	65
	3	80	220	200	977	210	190	152.5	127	2	22	4~18	87
	4	100	255	230	977	270	230	190.5	157.5	2	22	8~18	108
	6	150	375	305	977	270	280	241.5	216	2	23.5	8~22	138
CLASS300 PN50	2	50	140	140	750	120	165	127	92	2	20.5	8~18	81
	3	80	220	200	977	210	210	168.5	127	2	27	8~22	98
	4	100	255	230	977	270	255	200	157.5	2	30	8~22	120
	6	150	375	305	1043	350	320	270	216	2	35	12~22	154
CLASS600 PN110	2	50	190	190	750	270	165	127	92	7	25.5	8~18	91
	3	80	220	200	1050	270	210	168.5	127	7	32	8~22	106
	4	100	255	230	1043	350	275	216	157.5	7	38.5	8~26	138
	6	150	375	305	2040	584	355	292	216	7	48	12~29.5	176
CLASS900 PN150	2	50	190	190	750	270	215	165	92	7	38.5	8~26	103
	3	80	220	200	1011	270	240	190.5	127	7	38.5	8~26	123
	4	100	255	230	1043	350	290	235	157.5	7	44.5	8~32.5	155
	6	150	375	305	2040	584	380	317.5	216	7	56	12~32.5	194

1.For 1500LB and 2500LB valve,please consult Antiware.

2.All the dimensions and weights are for reference only. The factory reserves the right to make any modifications.

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How To Order



1、Product Code Name

AM—High-frequency Blowback Cleaning Valve

2、Nominal Diameter

NPS	2	3	4	6
DN	50	80	100	150

3、Pressure Rating

150	300	600	900
CLASS150	CLASS300	CLASS600	CLASS900

025	063	100	160
PN25	PN63	PN100	PN160

4、Connection Mode

Raised face flange	Ring joint
RF	RJ

5、Body Material

02	03	04
F304	F316	Others

6、Seat Material

P	K	L	X
PBI	PEEK	PPL	Others

7、Open-close Time (ms)

1	2	3	4	5	X
≤ 50	≤ 150	≤ 250	≤ 500	≤ 750	Others