

AXIAL FLOW CHECK VALVE



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AXIAL FLOW CHECK VALVE



Axial Flow Check Valve

- (1)Size NPS 1/2~NPS64,
- (2)Pressure: Class 150~Class 2500
- (3)Material: WCB, LCC, CF8, CF8M, 20Л , 20ГЛ, 12X18H9ТЛ, A105, F304, F316, F321

Description

Yongjia Vanero Machinery Co.,Ltd is authorized exporting agent by NDIV valve company in China, who makes in the world the high-grade and high-quality Axial Flow Check Valve. The product is applied to long distance natural gas,crude oil,refined oil,and slurry transmission pipeline,and ensures the long distance transmission pipeline safe and reliable operation.

Design Specification	Refer To ASME B16.34,API 6D
Face-to-Face	,API 6D Or Customer's Specification
Flange Dimension	ASME B16.5,ASME B16.47,GB , GOST, etc
Butt Welding	ASME B16.25. ASME B31.4、 ASME B31.8
Materials	ASTM ,GB, GOST etc
	Sulfur-Resistant NACE MR01-75,NACE MR01-03
Inspection & Testing	API 6D. API598 . ISO5208 . GB/T26480 . GB/T13927

Versions And Function Of Axial Flow Check Valve					
ACHS		ACHH		ACHA	
Nominal Diameter	NPS1/2"-64"	Nominal Diameter	NPS1/2"~64"	Nominal Diameter	NPS1/2"~64"
	DN15-1600		DN15-1600		DN15-1600
Pressure	Class150-2500	Pressure	Class150-2500	Pressure	Class 150 ~2500
	PN10~420		PN10~420		PN10~420
It is a non-return device,service for non-corrosive or corrosive fluid medium with the temperature range from -46-540°C,It is especially applicable to zero leakage and fire fighting working condition.		Applicable for high temperature,low temperature or severe working condition.		ACHA version check valve closing time can be adjustable according to working condition and can be applicable for more severe occasion on water hammer.	

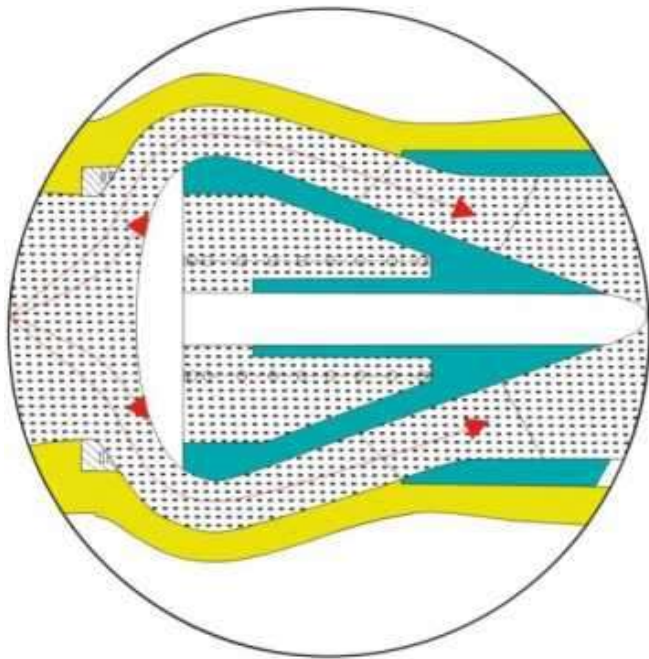
Working Principle

The unique and perfection of our axial flow check valve technology is formed from the analyze and research on fluid dynamics,and the comprehensive conclusion on manufacturing,assembly and stable analyzing in running process We laid stress on every detail from the design information input to products put into operation and service.as a professional axial flow check valve manufacturer,over thousands large amount of different sizes axial flow check valve have been supplied to critical crude oil pipeline,long distance transmission natural gas pipeline,storage facility as well as LNG plant in home and aboard.

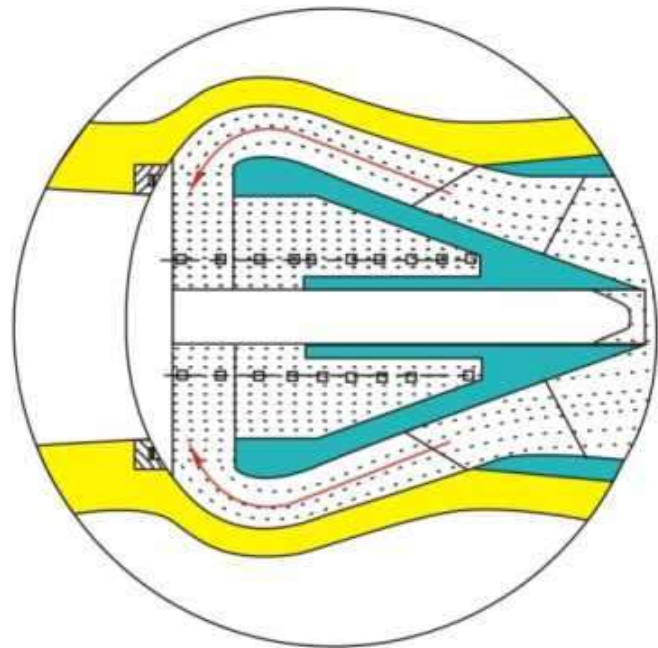
The axial flow check valve is a protective device to prevent the back flow, it is installed on the equipment (eg. compressor,pump), device (eg.gathering system .Measuring unit), or pipeline.When the medium flows to the disc,the flow will meet resistance, some power will be converse to PV to push the disc,open the valve.with the reduction of flow amount,the force of spring and medium back pressure will effect to close the valve to prevent return flow.

The check valve working characteristic is the loading force change sharply,small frequency in open and close,once it is in open or close status,it will keep a long period for this status, however once there have "shift" request,the operation must be very easily,

Therefore it has a more sever requirement on check valve compared to other ordinary mechanical operation



Valve Opening



Valve Closing

Characteristics

Single Body Structure-No Leakage

By adopting the independent patent technology, the sealing face of axial flow check valve be located on the sealing ring not on the valve body, thus ensure the machining precision of the sealing face and no leakage point in the body, then zero leakage has achieved.

Streamlined Flow Passage Design-Small Fluid Resistance, Good Flow Pattern

Full opening flow passage and venture valve body design, so there is enough and same flow passage area, the medium flows in streamline, stable in flow pattern, no cavitation, low noise, only with minimal pressure loss and operation cost.

Main Parts And Materials



Parts	Carbon Steel Series	Stainless Steel Series	Sulfur-resistant Series		Special Materials Series
			C.S. Valve	S. S. Valve Body	
Body	A105 A216-WCB, 20Л, 20ГЛ	A182-F304 F316 F321, A351-CF8 CF8M, 12X18H9ТЛ	Body A105 A216-WCB 20Л, 20ГЛ	A182-F304 F316 F321, A351-CF8 CF8M, 12X18H9ТЛ	2205. Hastelloy. Monel
Seat	13Cr. 304. 316,F321+Stellite				HVOF Co-Cr-W HVOF Ni-Cr
Seat Insert	PTFE/RPTFE/PPL/NYLON/DEVLON				DEVLON / PEEK
Disc	13Cr、 304、 316,F321+Stellite				HVOF Co-Cr-W HVOF Ni-Cr
Spring	304、 Inconel-X 750				Inconel-X 750
Guide Bush	A182-F6a	F304/316/F321			
Flow Diffuser	A105 A216-WCB	A182-F304 F316 A351-	A105 A216-WCB	A182-F304 F316 F321,	2205、 Monel

	20Л, 20ГЛ	CF8 CF8М 20Л,20ГЛ 12Х18Н9ТЛ		A351-CF8 CF8М 12Х18Н9ТЛ	
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