Pilot Check Valve with State Detection

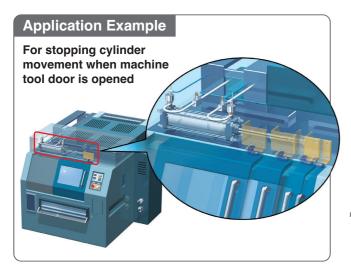


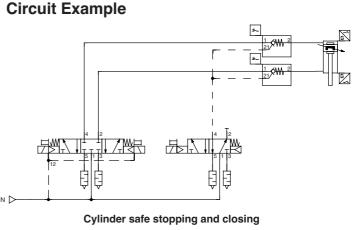
- The use of positive overlap ensures that signals are output only after the valve has closed completely.
 - * Positive overlap: Structure that ensures a completely closed state by slightly displacing the position of the valve after it has fully closed (to eliminate the effects of hysteresis)
- The open or closed position of the check valve is detected by the auto switch.
- Wide size variations

Body size: 5 types

Port size: M5, G1/8, G1/4, G3/8, G1/2



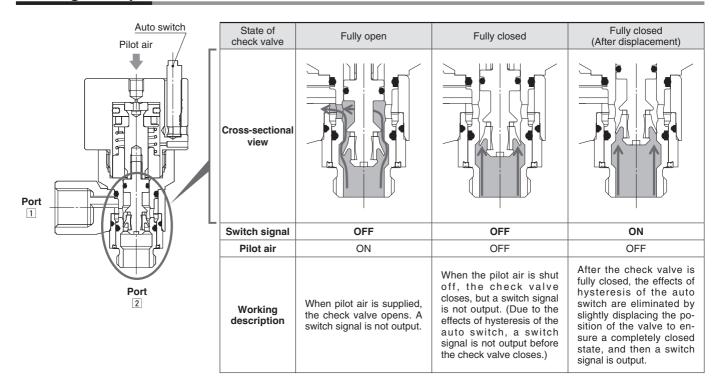






XT34-303-□

Working Principle



Specifications

Fluid		Air			
Operating pressure rai	nge	0.1 to 0.7 MPa			
Pilot check valve	XT34-303-M5	50 % or more of the operating pressure (0.25 MPa or more)			
operating pressure	XT34-303-F01 to F04	60 % or more of the operating pressur (0.35 MPa or more)			
Ambient and fluid temp	peratures	-5 to 60 °C (No freezing)			

Connector specification

Pin arrangement	Pin no. and designation				
1 4	1	2			
	DC (+)				
	3	4			
3)	DC (-)	OUT			

Flow Rate Characteristics

Model Flow direction		XT34-303-M5	XT34-303-F01	XT34-303-F02	XT34-303-F03	XT34-303-F04		
Flow rate	1 → 2	30	160	390	600	1300		
[I/min (ANR)]	2 → 1	65	270	430	960	1100		
Sonic conductance	1 → 2	0.1	0.4	1.1	1.7	3.6		
C [dm³/(s·bar)]	2 → 1	0.2	0.8	1.2	2.7	3.1		
Critical pressure ratio	1 → 2	0.2	0.2	0.2	0.3	0.3		
b	2 → 1	0.1	0.3	0.1	0.3	0.3		

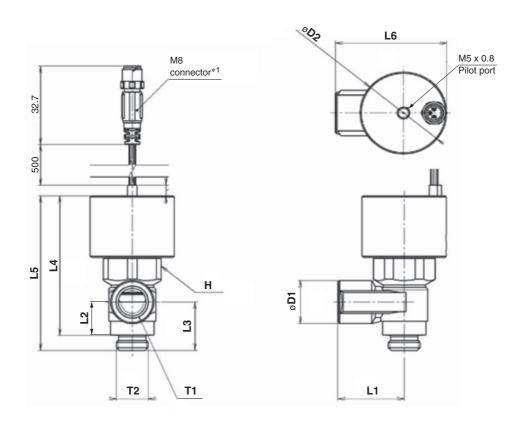
^{*} These values have been calculated according to ISO6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

How to Order



Symbol	Port size	Pilot port
M5	M5	
F01	G1/8	
F02	G1/4	M5 x 0.8
F03	G3/8	
F04	G1/2	

Dimensions [mm]



Model	T1	T2	Н	D1	D2	L1	L2	L3	L4	L5	L6
XT34-303-M5*2	M5 x 0.8	M5 x 0.8	9	_	24	10	7	_	47.7	51	_
XT34-303-F01*3	G1/8	G1/8	19	14.3	30	18	_	17.5	55.4	60.6	33.5
XT34-303-F02*4	G1/4	G1/4	24	18	35	27.5	_	20.2	57.6	63.9	45
XT34-303-F03*5	G3/8	G3/8	27	22.6	40	30.5	_	23.6	65.6	71.5	50.8
XT34-303-F04*6	G1/2	G1/2	36	27.5	44	39	_	30.4	82.1	89.6	61

 $[\]ast 1$ The solid state auto switch is a 3-wire PNP type with a 500 mm lead wire and an M8 connector.

^{*5} First, tighten it by hand, and then use a wrench to tighten it an additional 15 to 35 degrees. The reference value for the tightening torque is 8 to 9 N·m.

*6 First, tighten it by hand, and then use a wrench to tighten it an additional 15 to 35 degrees. The reference value for the tightening torque is 14 to 15 N·m.



^{*2} First, tighten it by hand, and then give it an additional 1/6 to 1/4 turn with a wrench. The reference value for the tightening torque is 1 to 1.5 N·m.

^{*3} First, tighten it by hand, and then use a wrench to tighten it an additional 10 to 20 degrees. The reference value for the tightening torque is 3 to 4 N·m.

^{*4} First, tighten it by hand, and then use a wrench to tighten it an additional 15 to 35 degrees. The reference value for the tightening torque is 4 to 5 N·m.



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