

Product overview

Pneumatic piece ball valve is composed of piece ball valve and pneumatic actuator. The Q611F pneumatic threaded ball valve and butt welded connection ball valve are divided into integral (one piece), two piece, and three piece types. There are three connection methods: threaded connection, butt welding connection and socket welding connection.

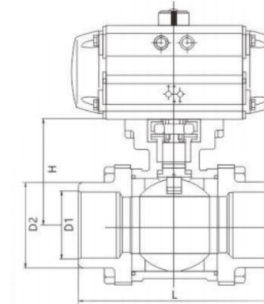


Actuator technical parameters

Actuator model	AT series single/double acting pneumatic actuator
Gas supply pressure	0.4~0.7MPa
Air source interface	G1/4", G1/8", G3/8", G1/2"
Ambient temperature	-30~70°C
Action form	Single-acting actuator: air-to-dose (B) - valve position open when air is lost (FO); air-to-open (K) - valve position closed when air is lost (FC) Double-acting actuator: air-to-close (B) - valve position is maintained when air is lost (FL); air-to-open (K) - valve position is maintained when air is lost (RL)
Available accessories	Positioner, solenoid valve, air filter pressure reducer, position-holding valve, travel switch, valve position transmitter, hand wheel mechanism, etc.

Main technical parameters and performance

Nominal diameter DN (mm)	10~100
Nominal pressure (MPa)	PN1.6, 2.5, 4.0, 6.4 MPa
Valve body type	Three-piece precision casting valve body, two-piece precision casting valve body
Connection Type	Threaded, welded
Valve core type	"O" type ball valve core
Sealing packing	PTFE, Flexible Graphite
Flow characteristics	Approximate fast-opening type
Range of motion	0~90°
Leakage Q	According to GB/T4213-92, less than rated KV0.01% (soft seal: zero leakage)
Basic error	With positioner: less than ±2% of full stroke
Dead zone	With positioner: less than 2% of full stroke
Adjustable range	250:1
Configuring the actuator	AT series single acting (SR) double acting (DA) pneumatic actuator
Control method	Switch two-position control, 4-20mA analog control



Installation connection dimensions

Nominal diameter DN	Inch"	Connection size				Actuator model
		L (mm)	D1	D2	H	
10	3/8	70	14.5	27	38	DA52/SR63
15	1/2	70	18.5	27	38	DA52/SR63
20	3/4	78	24.5	30.5	40	DA52/SR63
25	1	88	30	40	54	DA63/SR75
32	1 1/4	100	40	50	60	DA75/SR83
40	1 1/2	108	44.5	53	64	DA75/SR92
50	2	125	56	65	72	DA83/SR105
65	2 1/2	165	71.5	87	100	DA92/SR105
80	3	192	84.5	94	110	DA105/SR125
100	4	220	106			DA125/SR140

Main parts materials

Part name	Material name			
Valve body	WCB	304(CF8)	316(CF8M)	316L(CF3M)
Sphere	2Cr13+Nitriding treatment	304	316	316L
Valve stem	2Cr13	304	316	316L
Sealing ring	Reinforced polytetrafluoroethylene (PPL), para-polystyrene, stainless steel sealing ring			
Applicable media	Water, gas, steam, oil, etc.	Corrosive media such as nitric acid	Corrosive media such as acetic acid	Urea and other corrosive media

Main performance specifications

Nominal diameter DN (mm)		DN15-DN100				
Nominal pressure	PN (MPa)	1.0	1.6	2.5	4.0	6.4
	Strength test	1.5	2.4	3.75	6.0	9.60
Test pressure	Sealing test	1.1	1.76	2.75	4.4	7.04
	Low pressure airtight test	0.5~0.7				
Applicable media		Water, oil, steam, nitric acid (temperature ≤200°C), acetic acid (temperature ≤200°C)				