

Product overview

There are two series of pneumatic hard-seal ball valves, Q641H pneumatic floating hard-seal ball valve and Q647H pneumatic fixed hard-seal ball valve.



Main parts materials

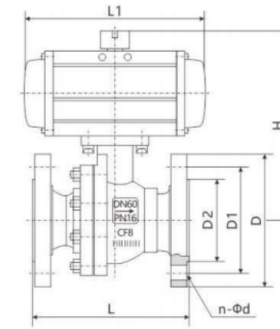
Part name	Material name			
	WCB	304(CF8)	316(CF8M)	316L(CF3M)
Valve body	2Cr13+Nitriding treatment	304	316	316L
Sphere	2Cr13	304	316	316L
Valve stem	2Cr13	304	316	316L
Valve seat seal	PTFE (Polytetrafluoroethylene, PPL high temperature PTFE)			
Filler	V-type PTFE tetrafluoroethylene filler, flexible graphite			

Main technical parameters and performance

Nominal diameter (mm)	15	20	25	32	40	50	65	80	100	125	150	200
Nominal pressure (MPa)	PN1.6, 2.5, 4.0, 6.4 MPa											
Leakage	Hardseal: $\leq 10^{-5}$ of rated flow											
Valve body type	Two-stage valve body (floating ball)											
Valve core type	"O" type ball valve core											
Sealing packing	Metal graphite spiral wound gasket											
Flow characteristics	Approximate fast opening characteristics											
Proper temperature	Sealing surface											
	Hard seal $\leq 450^\circ\text{C}$											
Configuring the actuator	AT series single acting (SR) double acting (DA) pneumatic actuator											
Control method	Switch two-position control, 4-20mA analog control											

Actuator technical parameters

Actuator model	AT series single and 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-close (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 (FL)
Available accessories	Positioner, solenoid valve, air filter pressure reducer, position-holding valve, travel switch, valve position transmitter, hand wheel mechanism, etc.



Installation connection dimensions

Unit:mm

Nominal diameter (mm)	Main dimensions				Flange size					Actuator model
	L	H	H1	L1	PN1.6MPa					
					D	D1	D2	N-Φd		
15	130	185	/	140	95	65	46	4-14	DA63/SR75	
20	140	191	/	140	105	75	45	4-14	DA75/SR83	
25	150	193	/	140	115	85	65	4-14	DA83/SR92	
32	165	212	/	164	140	100	76	4-18	DA92/SR105	
40	180	217	/	164	150	110	84	4-18	DA92/SR105	
50	200	260	102	190	165	125	99	4-18	DA105/SR125	
65	220	293	114	210	185	145	118	4-18	DA125/SR140	
80	250	323	127	247	200	160	132	8-18	DA125/SR140	
100	280	382	152	276	220	180	156	8-18	DA140/SR160	
125	320	468	184	348	250	210	184	8-18	DA160/SR190	
150	360	510	219	378	285	240	211	8-22	DA210/SR240	
200	400	655	273	524	340	295	266	12-22	DA240/SR270	

Main performance specifications

Nominal diameter(mm)		DN15~DN200				
Nominal pressure	PN(MPa)	1.0	1.6	2.5	4.0	6.4
Test pressure	Strength test	1.5	2.4	3.75	6.0	9.60
	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 ($\leq 350^\circ\text{C}$), nitric acid (temperature $\leq 200^\circ\text{C}$), acetic acid (temperature $\leq 200^\circ\text{C}$)					