

Product Overview

There are two series of pneumatic soft-seal ball valves, Q641F pneumatic floating soft-seal ball valve and Q647F pneumatic fixed soft-seal ball valve.

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
Valve seat seal	PTFE (Polytetrafluoroethylene, PPL high temperature PTFE)			
filler	V-type PTFE tetrafluoroethylene filler, flexible graphite			

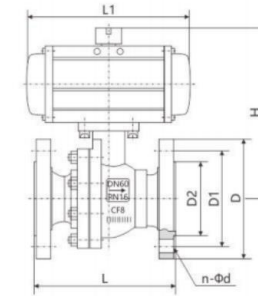


Main technical parameters and performance

Nominal diameter (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Nominal pressure (MPa)	PN1.6、2.5、4.0、6.4MPa													
Leakage	Soft seal: zero leakage													
Valve body type	Two-stage valve body (floating ball)													
Valve core type	"O" type ball valve core													
Sealing packing	Polytetrafluoroethylene (PTFE), metal graphite spiral wound gasket													
Flow characteristics	Approximate fast-opening characteristics													
proper temperature	Sealing surface													
	PTFE≤150℃、PPL≤250℃													
Configuring the actuator	AT series single and double acting pneumatic actuator													
control method	Switch type (two-position switch control), regulating type (4~20mA control)													

Actuator technical parameters

Actuator model	GT, 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℃
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, handwheel mechanism, etc.



Installation connection dimensions

Nominal diameter(mm)	Main dimensions			Flange size									
				PN1.6MPa				PN2.5MPa					
	L	H	H1	L1	D	D1	D2	N-Ød	D	D1	D2	N-Ød	
15	130	185	/	140	95	65	46	4-14	95	65	46	4-14	
20	140	191	/	140	105	75	45	4-14	105	75	56	4-14	
25	150	193	/	140	115	85	65	4-14	115	85	65	4-14	
32	165	212	/	164	140	100	76	4-18	140	100	76	4-18	
40	180	217	/	164	150	110	84	4-18	150	110	84	4-18	
50	200	260	102	190	165	125	99	4-18	165	125	99	4-18	
65	220	293	114	210	185	145	118	4-18	185	145	118	8-18	
80	250	323	127	247	200	160	132	8-18	200	160	132	8-18	
100	280	382	152	276	220	180	156	8-18	235	190	156	8-22	
125	320	468	184	348	250	210	184	8-18	270	220	184	8-26	
150	360	510	219	378	285	240	211	8-22	300	250	211	8-26	
200	400	655	273	524	340	295	266	12-22	360	310	274	12-26	
250	630	/	360	/	405	355	319	12-26	425	370	330	12-30	
300	750	/	395	/	460	410	370	12-26	485	430	389	16-30	

Main performance specifications

Nominal diameter (mm)		DN15~DN300				
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 ≤ 150℃), acetic acid (temperature ≤ 150℃)				