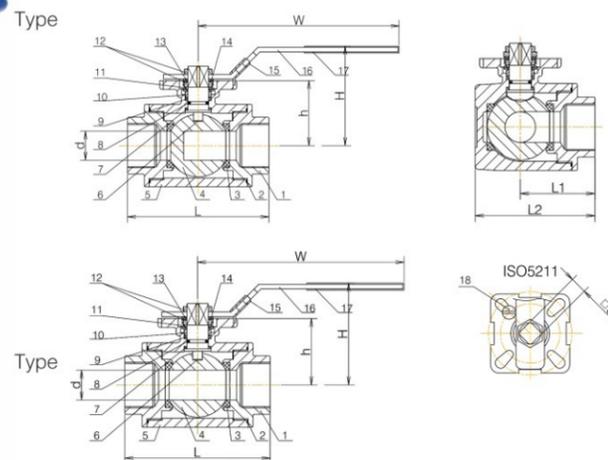


Manual Ball Valve

445 Series
3-Way Ball Valve
with Mounting Pad



Pneumatic Ball Valve

ESG[®]

451 Series
Pneumatic
Ball Valve Type A



451 Series
Pneumatic
Ball Valve Type B



Technical Specification

- Nominal pressure: PN63(1000Psi)
- Medium temperature: -10°C — +120°C
- Body and bonnet material: CF8, CF8M
- Ball material: CF8(304), CF8M(316)
- Seal ring and Packing: PTFE
- Control Pressure: 5bar
- Control type: Double acting
(Single-acting option is available upon request.)

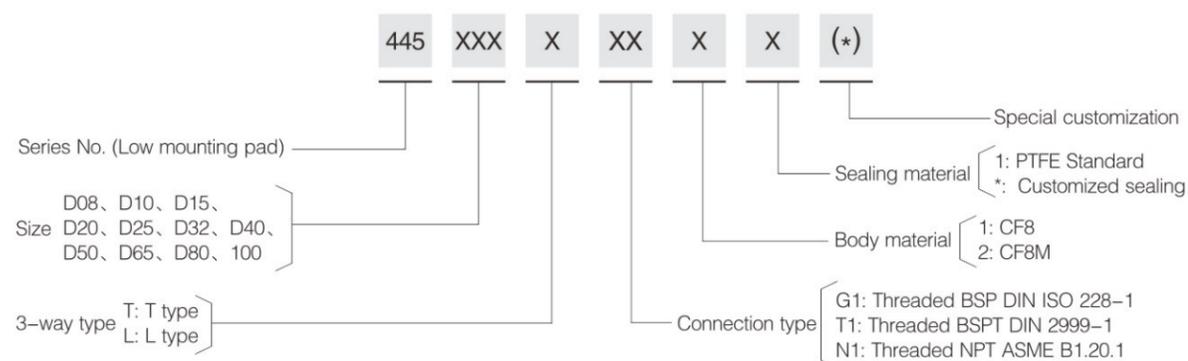
Technical Specification

- Nominal pressure: PN63
- Medium temperature: -10°C — +120°C
- Body and bonnet material: CF8(304), CF8M(316)
- Ball material: CF8(304), CF8M(316)
- Seal material: PTFE
- Connection type: Threaded connection
(BSP, BSPT, NPT);

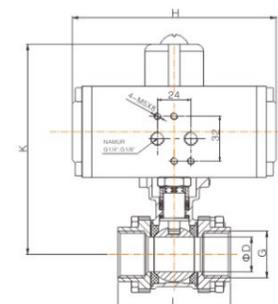
Main Dimension

Size	d	L	H	W	h	L1	□J	ISO5211	L2
DN8	9.5	75	66	130	36.8	37.5	9	F03/F04	57.5
DN10	11	75	66	130	36.8	37.5	9	F03/F04	57.5
DN15	12	75	66	130	36.8	37.5	9	F03/F04	57.5
DN20	15	85	72	161	41.2	42.5	11	F04/F05	65.5
DN25	20	100	77	161	46.5	50	11	F04/F05	79
DN32	25	122	92	203	56	61	14	F05/F07	97
DN40	32	131	96	203	60	65.5	14	F05/F07	106.5
DN50	40	158	107	203	70.5	79	14	F05/F07	129
DN65	49	178	135	254	95.5	89	17	F07/F10	145
DN80	60	202	147	254	106	101	17	F07/F10	167
DN100	75	246	160	310	119	123	17	F07/F10	203

Order Instruction



451 Series Pneumatic Ball Valve Type A

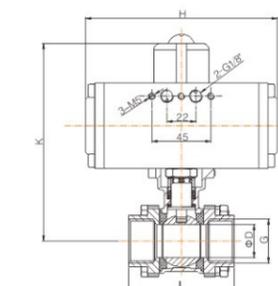


Main Dimension

Size	DN8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
G	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
ΦD	12.5	12.5	15	20	25	32	38	50
L	50	50	62	70	80	93	103	125
H	118	118	118	118	122	168	168	168
K	104	104	106	113	135	168	178	193
Double acting actuator type	RT007DA			RT012DA		RT035DA		

Note: Control air pressure: 5Bar

451 Series Pneumatic Ball Valve Type B



Main Dimension

Size	DN8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
G	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
ΦD	12.5	12.5	15	20	25	32	38	50
L	50	50	62	70	80	93	103	125
H	118	118	118	118	146	168	168	168
K	104	104	106	113	150	178	188	203
Double acting actuator type	AB-32DA			AB-45DA		AB-63DA		

Note: Control air pressure: 5Bar