EICMATION®

规格

设计
一片式全通径
防静电设计和防火结构
设计： ASME B16.34

操作
手柄90°旋转

连接
法兰标准：DIN2633或HG/T20592
ASME B16.5或HG/T20615
GB/T 9113

公称压力
PN16/PN25/40
150LB

温度范围
-40~250°C

材料
阀体： WCB
CF8
CF8M

球芯： 304
316

阀座：PTFE/PCTFE/RPTFE/PEEK

填料：PTFE/R-PTFE

手柄： SS

选项
电子指示器
加长手柄
手轮装置

Specification

DESIGN
1-piece design full bore
Anti-static and Fireproof structure
Design: ASME B16.34

OPERATION
Handle 90° rotation

CONNECTION
End flange standard: DIN2633 HG/T20592
ASME B16.5 HG/T20615
GB/T 9113

NOMINAL PRESSURE
PN16/PN25/40
150LB

TEMPERATURE RANGE
-40~250°C

MATERIALS
Body: WCB
CF8
CF8M

Ball: 304
316

seat: PTFE/PCTFE/RPTFE/PEEK

Packing:PTFE/R-PTFE

Handle: SS

OPTIONS
Electrical position indicator
Lengthened handle
Handwheel device

型号:
BRA
BRA手动对夹球阀

PN16/25/40
150LB

WCB
CF8
CF8M



以上信息仅供参考，本公司保留修改的权利，恕不另行通知。

The above information is for reference only and Eicmation reserves the right to alter without prior notice.

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举例说明： 比如 BRA2323513
=对夹球阀，WCB，CF8，PTFE，PN16，对夹，DN15
球阀

1 .字符 产品	2.字符 阀体	3.字符 内件	4.字符 密封	5.字符 压力标准	6.字符 连接	7 + 8.字符 口径
BRA=对夹球阀	2=WCB 3=CF8 4=CF8M	3=CF8 4=CF8M	2=PTFE 3=RPTFE F=PCTFE K=PEEK	3=PN16/150LB 4=PN25 5=PN40	5=对夹	13=1/2" (DN15) 19=2 1/2" (DN65) 14=3/4" (DN20) 20=3" (DN80) 15=1" (DN25) 21=4" (DN100) 16=1 1/4"(DN32) 22=5" (DN125) 17=1 1/2"(DN40) 23=6" (DN150) 18=2" (DN50)

Ordering example: e.g. BRA2323513
=Wafered Ball Valve,WCB，CF8，PTFE，PN16，Wafer，DN15
Ball valve

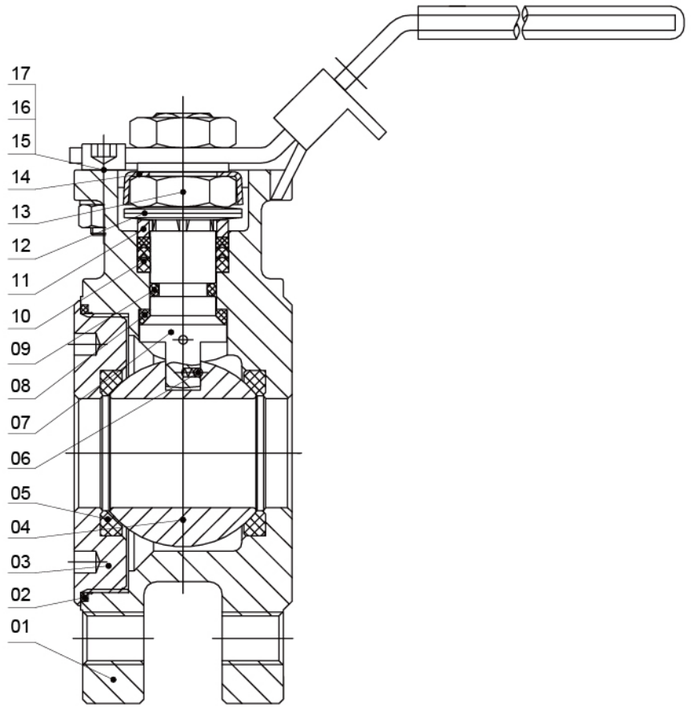
A. Type	B. Body	C. Trim	D. Seal	E. Standard pressure	F. Connection	G + H. Size
BRA=Wafered Ball Valve	2=WCB 3=CF8 4=CF8M	3=CF8 4=CF8M	2=PTFE 3=RPTFE F=PCTFE K=PEEK	3=PN16/150LB 4=PN25 5=PN40	5=Wafer	13=1/2" (DN15) 19=2 1/2" (DN65) 14=3/4" (DN20) 20=3" (DN80) 15=1" (DN25) 21=4" (DN100) 16=1 1/4"(DN32) 22=5" (DN125) 17=1 1/2"(DN40) 23=6" (DN150) 18=2" (DN50)

Type:
BRA
BRA Manual Wafered ball valve

PN16/25/40
150LB

WCB
CF8
CF8M

零件说明/Parts list

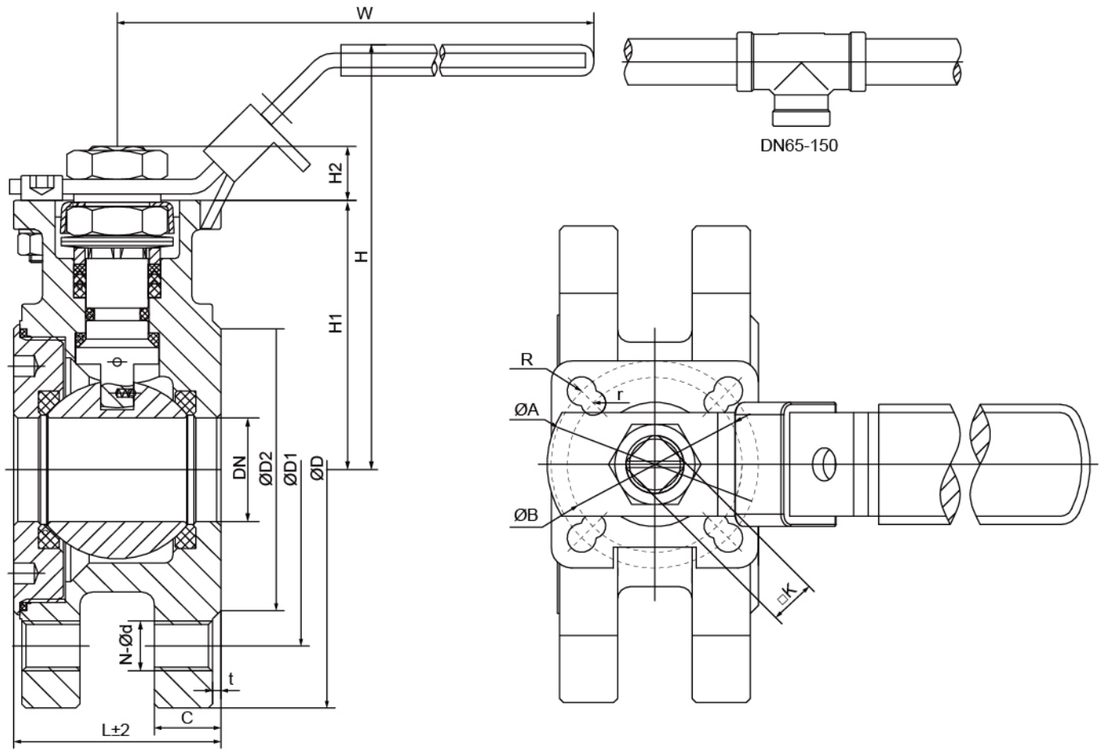


序号.	零件名称	材料
01	阀体	A351 CF8/A351 CF8M/A216 WCB
02	密封线	PTFE
03	阀盖	A351 CF8/A351 CF8M/A216 WCB
04	球体	SS304/SS316
05	阀座	PTFE
06	防触电弹簧	SS304
07	阀杆	SS304/SS316
08	减磨垫	PTFE
09	0型圈	Viton
10	V型填料	PTFE
11	压盖	SS304
12	碟簧	SS301
13	螺母	SS304
14	定位螺栓	SS304
15	垫片	SS304
16	螺母	SS304
17	垫片	SS304

No.	Description	Material
01	Body	A351 CF8/A351 CF8M/A216 WCB
02	Seal line	PTFE
03	Bonnet	A351 CF8/A351 CF8M/A216 WCB
04	Ball	SS304/SS316
05	Seat	PTFE
06	Anti-shock spring	SS304
07	Stem	SS304/SS316
08	Wearing pad	PTFE
09	O-ring	Viton
10	V-type packing	PTFE
11	Gland	SS304
12	Disc spring	SS301
13	Nut	SS304
14	Locating bolt	SS304
15	Gasket	SS304
16	Nut	SS304
17	Gasket	SS304

尺寸/Dimension

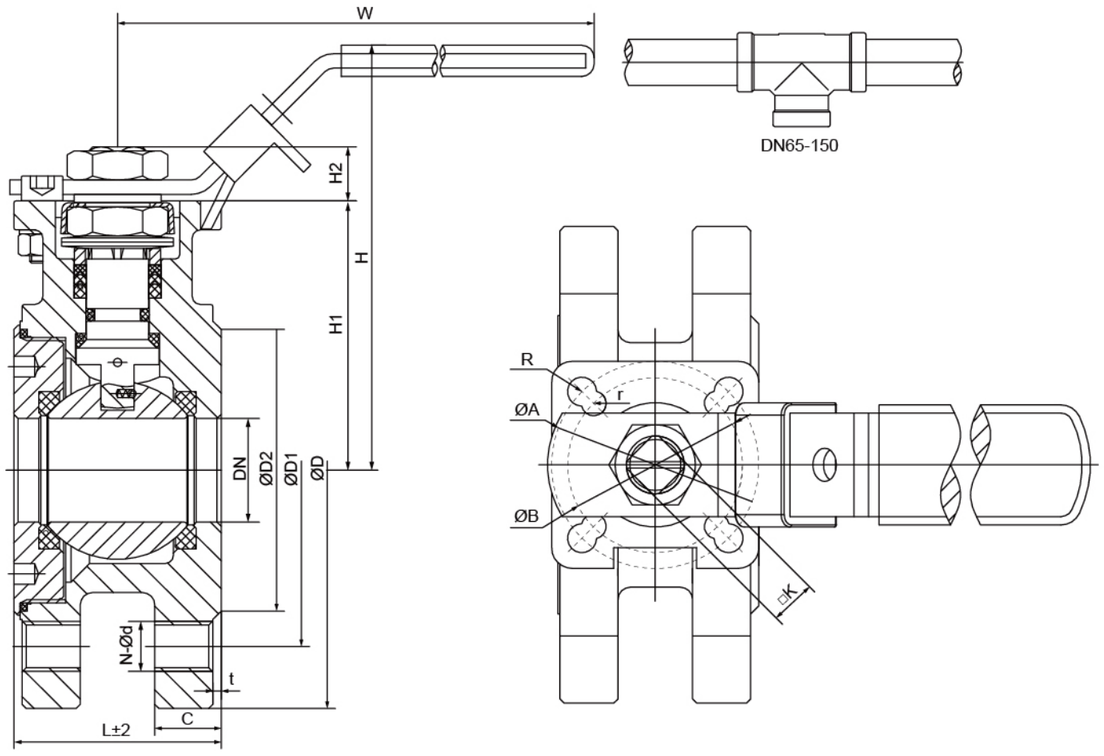
ASME Wafer



SIZE	DN	L	ØD	ØD1	ØD2	t	C	N-Ød	H	H1	H2	W	ØA	ØB	r	K
DN15	15	42	90	60.5	35	2	10	4-1/2"	79	54	8	135	42	36	3	9
DN20	20	44	100	70	43	2	11	4-1/2"	85	59	8	135	42	36	3	9
DN25	25	50	110	79.5	51	2	12	4-1/2"	95.5	65	13	165	50	42	3	11
DN32	32	60	115	89	63.5	2	13	4-1/2"	107	75	13	165	50	42	3	11
DN40	38	69	125	98.5	73	2	15	4-1/2"	131	83	15	215	70	50	3.5	14
DN50	50	82	150	120.7	92	2	16	4-5/8"	139	93	15	215	70	50	3.5	14
DN65	65	103	180	140	105	2	18	4-5/8"	146	107	18	260	102	70	4.5	17
DN76	76	120	190	152.5	127	2	19	4-5/8"	157	117	18	300	102	70	4.5	17
DN100	100	150	230	190.5	157	2	24	8-5/8"	168	128	18	300	102	70	4.5	17
DN125	125	196	255	218	186	2	24	8-3/4"	239	190	23	400	125	102	5.5	22
DN150	150	234	280	241.5	216	2	26	8-3/4"	247	198	23	500	125	102	5.5	22

尺寸/Dimension

DIN Wafer



SIZE	DN	L	ØD	ØD1	ØD2	t	C	N-Ød	H	H1	H2	W	ØA	ØB	r	K
DN15	15	42	82	65	45	2	16	4-M12	79	48.5	8	135	42	36	3	9
DN20	20	44	98	75	58	2	16	4-M12	85	54	8	135	42	36	3	9
DN25	25	50	115	85	68	2	16	4-M12	102	65	12	165	50	42	3	11
DN32	32	60	140	100	78	2	18	4-M16	115	78	12	165	50	42	3	11
DN40	38	65	150	110	85	3	18	4-M16	131	85	15	215	70	50	3.5	14
DN50	50	82	165	125	102	3	18	4-M16	139	93	15	215	70	50	3.5	14
DN65	65	103	185	145	122	3	18	4-M16	146	107	18	260	102	70	4.5	17
DN76	76	120	200	160	138	3	20	8-M16	157	119	18	300	102	70	4.5	17
DN100	100	150	220	180	158	3	20	8-M16	168	132	18	300	102	70	4.5	17
DN125	125	196	250	210	188	3	22	8-M16	239	190	23	550	125	102	5.5	22
DN150	150	234	285	240	212	3	22	8-M20	247	198	23	650	125	102	5.5	22

规格

设计
一片式全通径
防静电设计和防火结构
设计： ASME B16.34

操作
气动双作用或单作用

连接
法兰标准：DIN2633或HG/T20592
ASME B16.5或HG/T20615
GB/T 9113

公称压力
PN16/PN25/PN40
150LB

气源压力
2-8 bar
(低的气源压力根据需要)

温度范围
-40~250°C

材料
阀体： WCB
CF8
CF8M

球芯： 304
316

阀座：PTFE/PCTFE/RPTFE/PEEK

填料：PTFE/R-PTFE

环境温度
-20°C - +70°C

气源介质
过滤后气体(除油、灰和水)

选项
两位三通或两位五通阀，电子或物理指示器，定位器，过滤减压器，手动离合器

更多规范请根据球阀(BRA)和执行器(PA)数据表

以上信息仅供参考，埃克美迅公司保留修改的权利，恕不另行通知

Specification

DESIGN
1-piece design full bore
Anti-static and Fireproof structure
Design: ASME B16.34

OPERATION
Pneumatic double-acting or single-acting

CONNECTION
End flange dimention: DIN2633 or HG/T20592
ASME B16.5 or HG/T20615
GB/T 9113

NOMINAL PRESSURE
PN16/PN25/PN40
150LB

PILOT PRESSURE
2-8 bar
(Low pilot pressure as required)

TEMPERATURE RANGE
-40~250°C

MATERIALS
Body: WCB
CF8
CF8M

Ball: 304
316

seat: PTFE/PCTFE/RPTFE/PEEK

Packing: PTFE/R-PTFE

EXTERNAL TEMPERATURE RANGE
-20°C - +70°C

PILOT MEDIA
Filtered gases (oil, ash and water removal)

OPTIONS
3/2-ways 5/2-ways valve, electronic or physical Indicator, Positioner, Filter Reducer, Manual clutch

For further specifications please refer to the ball valve (BRA) and actuator(PA) data sheet

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型号:
BRA-PA
BRA-PA气动对夹球阀

PN16/25/40
150LB

WCB
CF8
CF8M



Type:
BRA-PA
BRA-PA pneumatic Wafered ball valve

PN16/25/40
150LB

WCB
CF8
CF8M

举例说明： 比如 BRA2323513-PA1113110
=对夹球阀，WCB，CF8，PTFE，PN16，对夹，DN15,气动执行器, 双作用, 铝合金, Ø52,NBR,齿轮, 0-90°
球阀

1.字符 产品	2.字符 阀体	3.字符 内件	4.字符 密封	5.字符 压力标准	6.字符 连接	7 + 8.字符 口径
BRA=对夹球阀	2=WCB 3=CF8 4=CF8M	3=CF8 4=CF8M	2=PTFE 3=RPTFE F=PCTFE K=PEEK	3=PN16/150LB 4=PN25 5=PN40	5=对夹	13=1/2" (DN15) 19=2 1/2" (DN65) 14=3/4" (DN20) 20=3" (DN80) 15=1" (DN25) 21=4" (DN100) 16=1 1/4"(DN32) 22=5" (DN125) 17=1 1/2"(DN40) 23=6" (DN150) 18=2" (DN50)

执行器

9.字符 产品	10.字符 功能	11.字符 材质	12 + 13.字符 规格	14.字符 密封	15.字符 结构	16.字符 行程
PA=气动执行器	1=双作用 2=单作用常闭 3=单作用常开	1=铝合金 2=不锈钢	13=Ø52 22=Ø190 14=Ø63 23=Ø210 15=Ø75 24=Ø240 16=Ø83 25=Ø270 17=Ø92 26=Ø300 18=Ø105 27=Ø350 19=Ø125 28=Ø400 20=Ø140 21=Ø160	1=NBR 2=HNBR 3=FKM	1=齿轮	0=0-90° 1=0-120° 2=0-135° 3=0-150° 4=0-180° 5=0-270°

Ordering example: e.g. BRA2323513-PA1113110
=Wafered Ball Valve,WCB, CF8, PTFE, PN16, Wafer, DN15,Pneumatic actuator,Double acting,Aluminium alloy,Ø52,NBR,Gear,0-90°
Ball valve

A. Type	B. Body	C. Trim	D. Seal	E. Standard pressure	F. Connection	G + H. Size
BRA=Wafered Ball Valve	2=WCB 3=CF8 4=CF8M	3=CF8 4=CF8M	2=PTFE 3=RPTFE F=PCTFE K=PEEK	3=PN16/150LB 4=PN25 5=PN40	5=Wafer	13=1/2" (DN15) 19=2 1/2" (DN65) 14=3/4" (DN20) 20=3" (DN80) 15=1" (DN25) 21=4" (DN100) 16=1 1/4"(DN32) 22=5" (DN125) 17=1 1/2"(DN40) 23=6" (DN150) 18=2" (DN50)

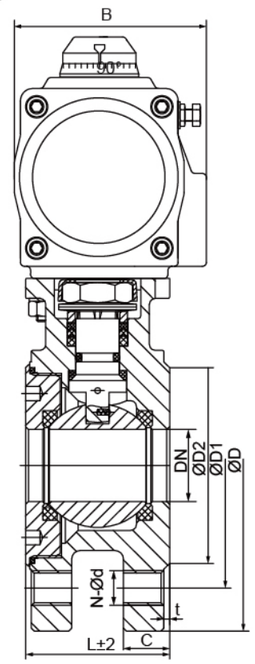
Actuator

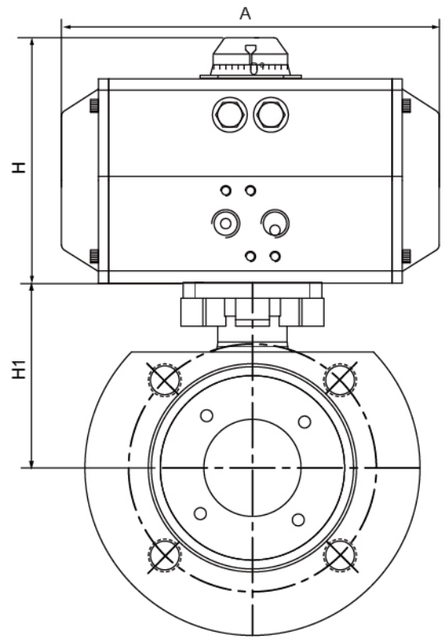
I. Product	J. Fail position	K. Material	L + M. Size	N. Seal	O. Structure	P. Trip
PA=Pneumatic actuator	1=Double acting 2=Single acting-close 3=Single acting-open	1=Aluminium alloy 2=Stainless steel	13=Ø52 22=Ø190 14=Ø63 23=Ø210 15=Ø75 24=Ø240 16=Ø83 25=Ø270 17=Ø92 26=Ø300 18=Ø105 27=Ø350 19=Ø125 28=Ø400 20=Ø140 21=Ø160	1=NBR 2=HNBR 3=FKM	1=Gear	0=0-90° 1=0-120° 2=0-135° 3=0-150° 4=0-180° 5=0-270°

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尺寸/Dimension

ASME 对夹式/Wafer



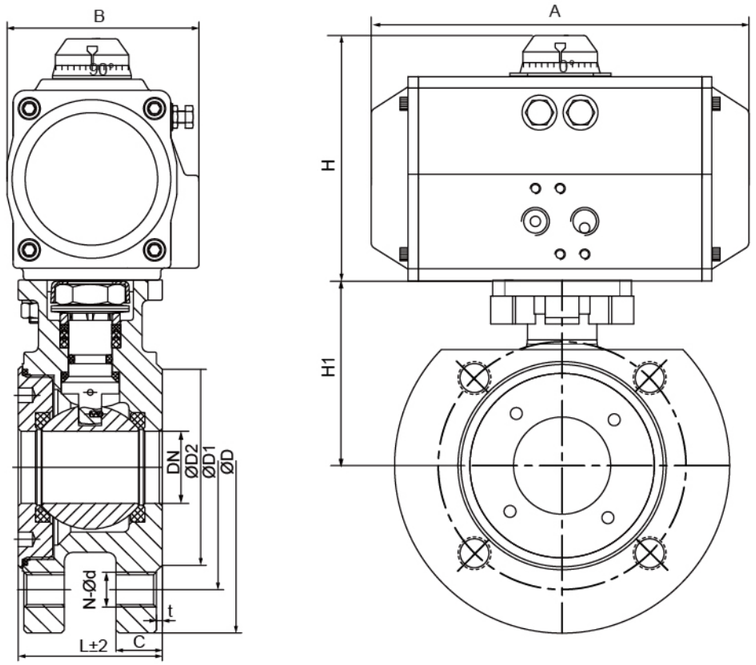


DN	DN	L	Actuator Model	Actuator Size	H	A	B	ØD	ØD1	ØD2	t	C	N-Ød	H1
DN15	15	42	PA1113110	Ø52	102	147	72	90	60.5	35	2	10	4-1/2"	54
			PA2113110	Ø52	102	147	72							
DN20	20	44	PA1113110	Ø52	102	147	72	100	70	43	2	11	4-1/2"	59
			PA2114110	Ø63	118	172	83							
DN25	25	50	PA1114110	Ø63	118	172	83	110	79.5	51	2	12	4-1/2"	65
			PA2114110	Ø63	118	172	83							
DN32	32	60	PA1114110	Ø63	118	172	83	115	89	63.5	2	13	4-1/2"	75
			PA2115110	Ø75	130	184	95							
DN40	38	69	PA1115110	Ø75	130	184	95	125	98.5	73	2	15	4-1/2"	83
			PA2116110	Ø83	139	204	103							
DN50	50	82	PA1116110	Ø83	139	204	103	150	120.7	92	2	16	4-5/8"	93
			PA2117110	Ø92	147	262	109							
DN65	65	103	PA1117110	Ø92	147	262	109	180	140	105	2	18	4-5/8"	107
			PA2118110	Ø105	163	268	121							
DN76	76	120	PA1118110	Ø105	163	268	121	190	152.5	127	2	19	4-5/8"	117
			PA2119110	Ø125	185	301	143							
DN100	100	150	PA1119110	Ø125	185	301	143	230	190.5	157	2	24	8-5/8"	128
			PA2120110	Ø140	203	394	152							
DN125	125	196	PA1120110	Ø140	203	394	152	255	218	186	2	24	8-3/4"	190
			PA2121110	Ø160	228	458	174							
DN150	150	234	PA1121110	Ø160	228	458	174	280	241.6	216	2	26	8-3/4"	198
			PA2122110	Ø190	262	528	206							

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尺寸/Dimension

DIN 对夹式/Wafer



DN	DN	L	Actuator		H	A	B	ØD	ØD1	ØD2	t	ØC	N-Ød	H1
			Model	Size										
DN15	15	42	PA1113110	Ø52	102	147	72	82	65	45	2	16	4-M12	48.5
			PA2113110	Ø52	102	147	72							
DN20	20	44	PA1113110	Ø52	102	147	72	98	75	58	2	16	4-M12	54
			PA2114110	Ø63	118	172	83							
DN25	25	50	PA1114110	Ø63	118	172	83	115	85	68	2	16	4-M12	65
			PA2114110	Ø63	118	172	83							
DN32	32	60	PA1114110	Ø63	118	172	83	140	100	78	2	18	4-M16	78
			PA2115110	Ø75	130	184	95							
DN40	38	65	PA1115110	Ø75	130	184	95	150	110	85	3	18	4-M16	85
			PA2116110	Ø83	139	204	103							
DN50	50	82	PA1116110	Ø83	139	204	103	165	125	102	3	18	4-M16	93
			PA2117110	Ø92	147	262	109							
DN65	65	103	PA1117110	Ø92	147	262	109	185	145	122	3	18	4-M16	107
			PA2118110	Ø105	163	268	121							
DN76	76	120	PA1118110	Ø105	163	268	121	200	160	138	3	20	8-M16	119
			PA2119110	Ø125	185	301	143							
DN100	100	150	PA1119110	Ø125	185	301	143	220	180	158	3	20	8-M16	132
			PA2120110	Ø140	203	394	152							
DN125	125	196	PA1120110	Ø140	203	394	152	250	210	188	3	22	8-M16	190
			PA2121110	Ø160	228	458	174							
DN150	150	234	PA1121110	Ø160	228	458	174	285	240	212	3	22	8-M20	198
			PA2122110	Ø190	262	528	206							

规格

设计
一片式全通径，执行器安装执行ISO5211
防静电设计和防火结构设计：ASME B16.34

操作
电动含手动操作

公称压力
PN16/PN25/40
150LB

温度范围
-40~250°C

材料
阀体： WCB
CF8
CF8M

球芯： 304
316

阀座：PTFE/PCTFE/RPTFE/PEEK

填料：PTFE/R-PTFE

环境温度
-20°C - +60°C

可选电压
24V DC,24V AC,110V AC
220V AC,380V AC

防护
IP 67

标准设备
限位开关 ,物理指示器,手动控制

选项
除湿加热器
过力矩保护
调节型4-20mA
Exd IIB T4

更多规范请根据球阀(BRA)和执行器(KL)
数据表

以上信息仅供参考，埃克美迅公司保留修改的
权利，恕不另行通知

Specification

DESIGN
1-piece design full bore,mounting pad for actuator according to ISO 5211.
Anti-static and Fireproof structure
Design: ASME B16.34

OPERATION
Electric include handle operation

NOMINAL PRESSURE
PN16/PN25/40
150LB

TEMPERATURE RANGE
-40~250°C

MATERIALS
Body: WCB
CF8
CF8M

Ball: 304
316

seat: PTFE/PCTFE/RPTFE/PEEK

Packing: PTFE/R-PTFE

EXTERNAL TEMPERATURE RANGE
-20°C - +60°C

OPTIONAL VOLTAGE
24V DC,24V AC,110V AC
220V AC,380V AC

PROTECTIVE
IP 67

STANDARD EQUIPMENT
Additional limit switches, optical position indicator, manual override

OPTIONS
Dehumidification heater
Overtorque protection
Modulate type 4-20mA
Exd IIB T4

For further specifications please refer to the ball valve (BRA) and actuator (KL) data sheet

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型号:
BRA-KL
BRA-KL电动对夹球阀

PN16/25/40
150LB

WCB
CF8
CF8M



Type:
BRA-KL
BRA-KL Electric Wafered ball valve

PN16/25/40
150LB

WCB
CF8
CF8M

举例说明： 比如 BRA2323513-KL111111
=对夹球阀，WCB，CF8，PTFE，PN16，对夹，DN15,基本型角行程电动执行器,24V DC,不防爆，50NM,开关+干接点
球阀

1 .字符 产品	2.字符 阀体	3.字符 内件	4.字符 密封	5.字符 压力标准	6.字符 连接	7 + 8.字符 口径
BRA=对夹球阀	2=WCB 3=CF8 4=CF8M	3=CF8 4=CF8M	2=PTFE 3=RPTFE F=PCTFE K=PEEK	3=PN16/150LB 4=PN25 5=PN40	5=对夹	13=1/2" (DN15) 19=2 1/2" (DN65) 14=3/4" (DN20) 20=3" (DN80) 15=1" (DN25) 21=4" (DN100) 16=1 1/4"(DN32) 22=5" (DN125) 17=1 1/2"(DN40) 23=6" (DN150) 18=2" (DN50)

执行器

9.字符 产品	10.字符 电压	11.字符 防爆等级	12+13.字符 扭矩（NM）	14.字符 附件	15.字符 备用
KL=基本型角行程 电动执行器	1=24V DC 2=24V AC 3=110V AC 4=220V AC 5=380V AC	1=无 2=Exd ⅡBT4 （50-600NM）	11=50 13=100 15=200 17=400 19=600 21=1000 23=2000	1=开关+干接点 2=调节型4~20mA	1=无 2=电位计1K~10K 3=电流位置传感器4~20mA 4=过载保护（200-2000NM） 8=除湿保护

Ordering example: e.g. BRA2323513-KL111111
=Wafered Ball Valve,WCB，CF8，PTFE，PN16，Wafer，DN15,Electric actuator,24V DC,None，50NM,On/Off type +Limit switch
Ball valve

A. Type	B. Body	C. Trim	D. Seal	E. Standard pressure	F. Connection	G + H. Size
BRA=Wafered Ball Valve	2=WCB 3=CF8 4=CF8M	3=CF8 4=CF8M	2=PTFE 3=RPTFE F=PCTFE K=PEEK	3=PN16/150LB 4=PN25 5=PN40	5=Wafer	13=1/2" (DN15) 19=2 1/2" (DN65) 14=3/4" (DN20) 20=3" (DN80) 15=1" (DN25) 21=4" (DN100) 16=1 1/4"(DN32) 22=5" (DN125) 17=1 1/2"(DN40) 23=6" (DN150) 18=2" (DN50)

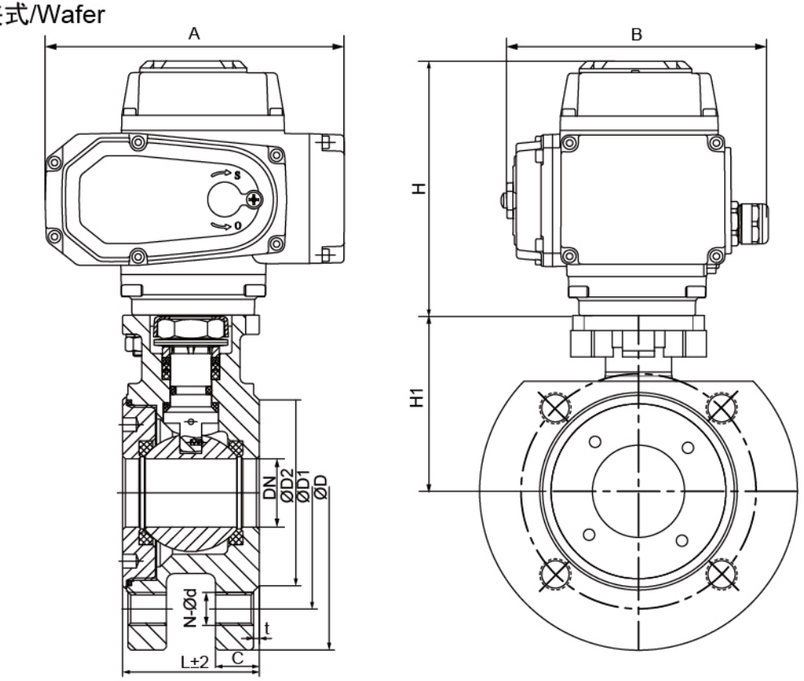
Actuator

I . Type	J. Voltage	K. Explosion proof grade	L+M. Torque(NM)	N. Extra	O. Others
KL=Basic angle stroke Electric actuator	1=24V DC 2=24V AC 3=110V AC 4=220V AC 5=380V AC	1=None 2=Exd ⅡBT4 （50-600NM）	11=50 13=100 15=200 17=400 19=600 21=1000 23=2000	1=On/Off type +Limit switch 2=Modulante type 4~20mA	1=No 2=1K~10K potentiometer 3=Current position sensor 4~20mA 4=Overload protection (200-2000NM) 8=Dehumidification

EICMATION®

尺寸/Dimension

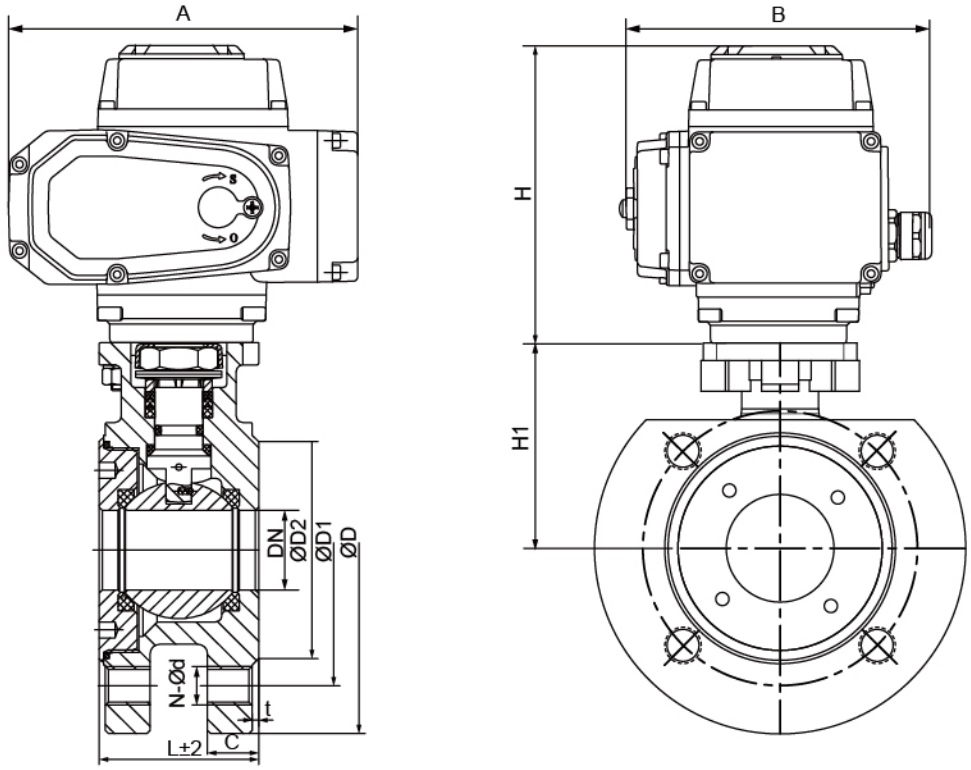
ASME 对夹式/Wafer



DN	DN	L	Actuator		H	A	B	ØD	ØD1	ØD2	t	C	N-Ød	H1
			Model	Torque(NM)										
DN15	15	42	KL111111	50	137.5	165	140.5	90	60.5	35	2	10	4-1/2”	54
			KL121111	50	150	170.5	120.5							
DN20	20	44	KL111111	50	137.5	165	140.5	100	70	43	2	11	4-1/2”	59
			KL121111	50	150	170.5	120.5							
DN25	25	50	KL111111	50	137.5	165	140.5	110	79.5	51	2	12	4-1/2”	65
			KL121111	50	150	170.5	120.5							
DN32	32	60	KL111111	50	137.5	165	140.5	115	89	63.5	2	13	4-1/2”	75
			KL121111	50	150	170.5	120.5							
DN40	38	69	KL111111	50	137.5	165	140.5	125	98.5	73	2	15	4-1/2”	83
			KL121111	50	150	170.5	120.5							
DN50	50	82	KL111311	100	168.5	211.5	154	150	120.7	92	2	16	4-5/8”	93
			KL121311	100	182	217.5	139							
DN65	65	103	KL111311	100	168.5	211.5	154	180	140	105	2	18	4-5/8”	107
			KL121311	100	182	217.5	139							
DN76	76	120	KL111511	200	203	259	154	190	152.5	127	2	19	4-5/8”	117
			KL121511	200	182	217.5	139							
DN100	100	150	KL111511	200	203	259	186	230	190.5	157	2	24	8-5/8”	128
			KL121511	200	182	217.5	139							
DN125	125	196	KL111711	400	203	259	186	255	218	186	2	24	8-3/4”	190
			KL121711	400	213	266.5	170							
DN150	150	234	KL111911	600	203	259	186	280	241.6	216	2	26	8-3/4”	198
			KL121911	600	213	266.5	170							

尺寸/Dimension

DIN 对夹式/Wafer



DN	DN	L	Actuator		H	A	B	ØD	ØD1	ØD2	t	ØC	N-Ød	H1
			Model	Torque(NM)										
DN15	15	42	KL111111	50	137.5	165	140.5	82	65	45	2	16	4-M12	48.5
			KL121111	50	150	170.5	120.5							
DN20	20	44	KL111111	50	137.5	165	140.5	98	75	58	2	16	4-M12	54
			KL121111	50	150	170.5	120.5							
DN25	25	50	KL111111	50	137.5	165	140.5	115	85	68	2	16	4-M12	65
			KL121111	50	150	170.5	120.5							
DN32	32	60	KL111111	50	137.5	165	140.5	140	100	78	2	18	4-M16	78
			KL121111	50	150	170.5	120.5							
DN40	38	65	KL111111	50	137.5	165	140.5	150	110	85	3	18	4-M16	85
			KL121111	50	150	170.5	120.5							
DN50	50	82	KL111311	100	168.5	211.5	154	165	125	102	3	18	4-M16	93
			KL121311	100	182	217.5	139							
DN65	65	103	KL111311	100	168.5	211.5	154	185	145	122	3	18	4-M16	107
			KL121311	100	182	217.5	139							
DN76	76	120	KL111511	200	203	259	154	200	160	138	3	20	8-M16	119
			KL121511	200	182	217.5	139							
DN100	100	150	KL111511	200	203	259	186	220	180	158	3	20	8-M16	132
			KL121511	200	182	217.5	139							
DN125	125	196	KL111711	400	203	259	186	250	210	188	3	22	8-M16	190
			KL121711	400	213	266.5	170							
DN150	150	234	KL111911	600	203	259	186	285	240	212	3	22	8-M20	198
			KL121911	600	213	266.5	170							