

Specification

DESIGN

Forged valve body

OPERATION

Rotation of the handle through 90°

CONNECTION

G/NPT/RC/Male thread/ferrule connection/welding

PRESSURE RANGE

1/8" - 3/8" PN 500;
1/2" - 3/4" PN 400;
1" - 2" PN 350;

TEMPERATURE RANGE

POM: -30- +100°C

PEEK: -30- +200°C

MATERIALS

Body: A105
F304
F316

Ball: 304SS
316SS

Seat: POM/PEEK

Packing: POM/PEEK

Handle: SS

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



Type:
A400

ISO5211 high-pressure ball valve
Manual high-pressure ball valve
Ferrule high-pressure ball valve

A105
F304
F316

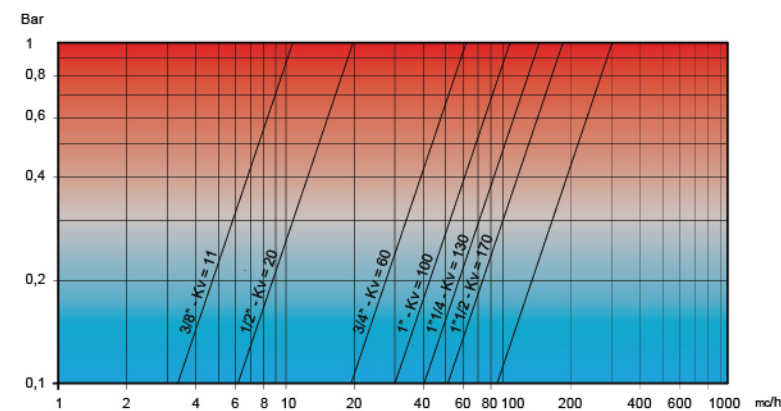
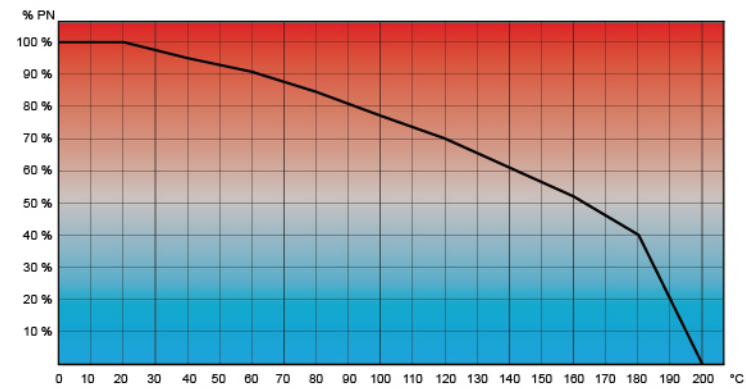
Model code

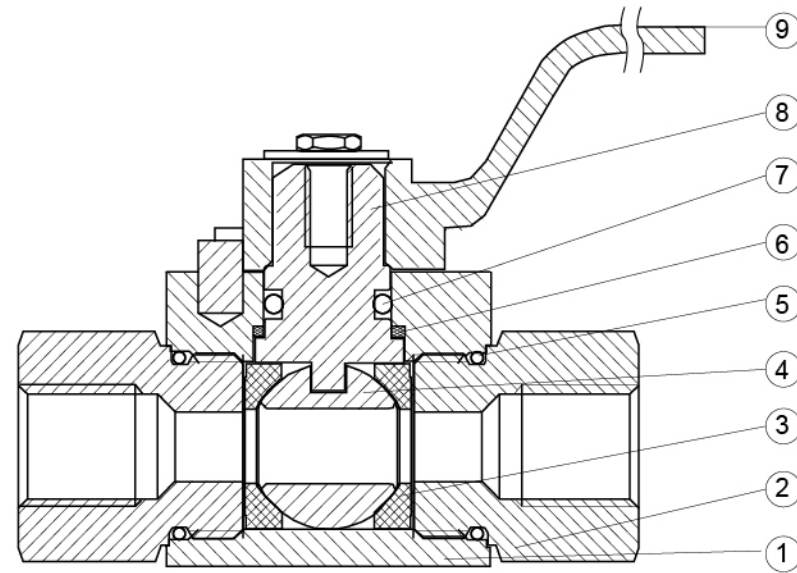
A	B	C	D	E	F	G	H	I	J
A400	A	L	2	4	K	K	H	B	13

A. Product	B. Control	C. Type of actuator	D. Body
A400=2 way High Pressure Ball Valve	A=Manual B=Pneumatic Piston Actuator P=Basic Electric Actuator 0=NONE	L=Lever W=Handwheel U=ISO5211 Lever D=Double Acting S=Single Acting FC P=Single Acting FO E=220VAC Electric Actuator(ON/OFF) F=24VDC Electric Actuator(ON/OFF) M=380VAC Electric Actuator(ON/OFF) G=220VAC Electric Actuator(Control) H=24VDC Electric Actuator(Control) J=380VAC Electric Actuator(Control) K=220VAC Explosion Proof Electric Actuator(ON/OFF) N=24VDC Explosion Proof Electric Actuator(ON/OFF) Q=380VAC Explosion Proof Electric Actuator(ON/OFF) R=220VAC Explosion Proof Electric Actuator(Control) T=24VDC Explosion Proof Electric Actuator(Control) V=380VAC Explosion Proof Electric Actuator(Control) 0=NONE	2=A105 4=F304 6=F316

E. Trim	F. Seal	G. Packing	H. Pressure	I. Connection	J. Valve size
4=F304 6=F316	K=PEEK M=POM	K=PEEK M=POM	H=PN400 M=PN350 N=PN500	B=BUTT WELDING G=G THREAD K=FERRULE N=NPT THREAD	13=1/2" (DN15) 14=3/4" (DN20) 15=1" (DN25) 16=1 1/4" (DN32) 17=1 1/2" (DN40) 18=2" (DN50)

Pressure-Temperature-Diagram

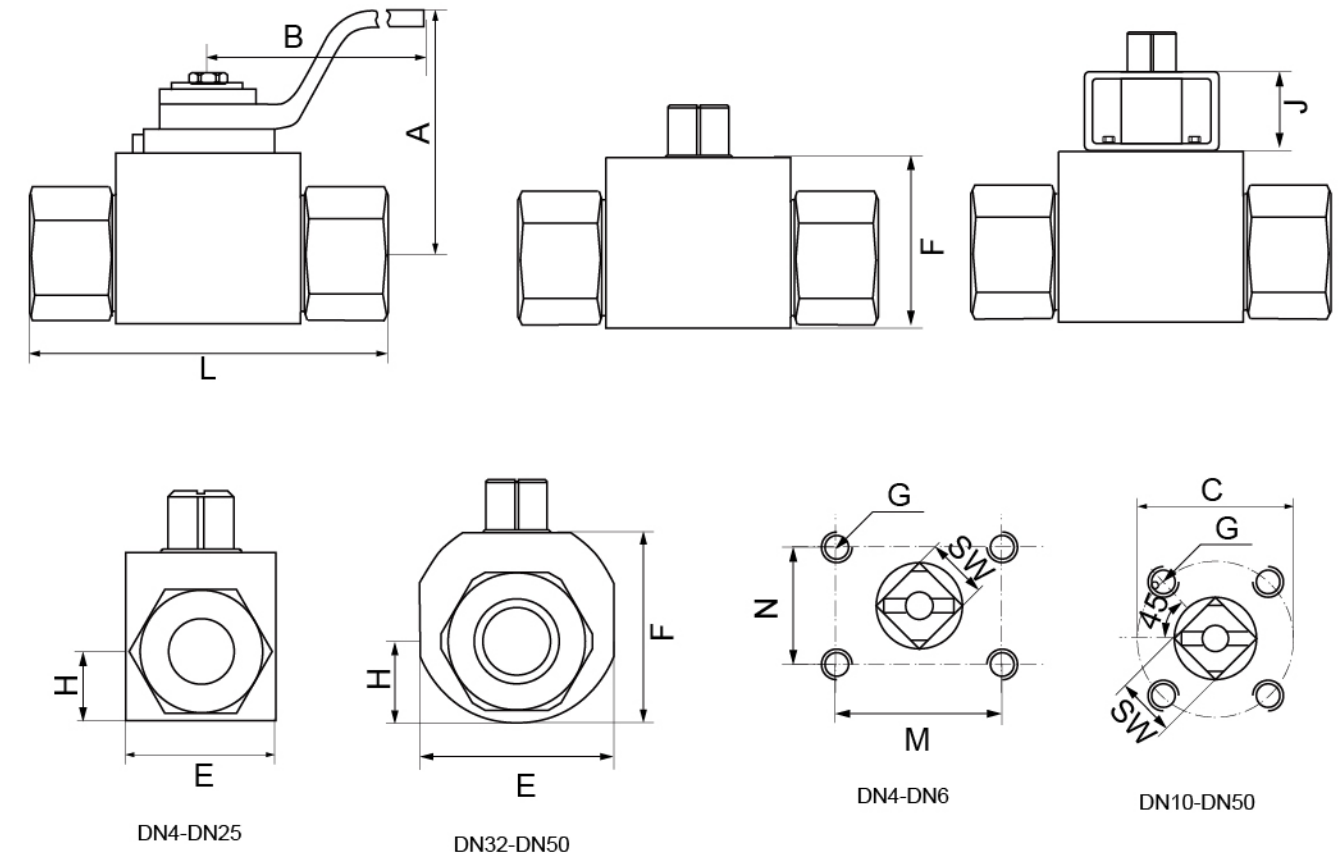




No.	Description	Material
1	Body	A105
		F304
		F316
2	Cap	A105
		F304
3	Seat	POM
		PEEK
4	Ball	304
		316
5	O-ring	FPM
6	Washer	POM
7	O-ring	PEEK
8	Stem	304
		316
9	Handle	SS

Dimension

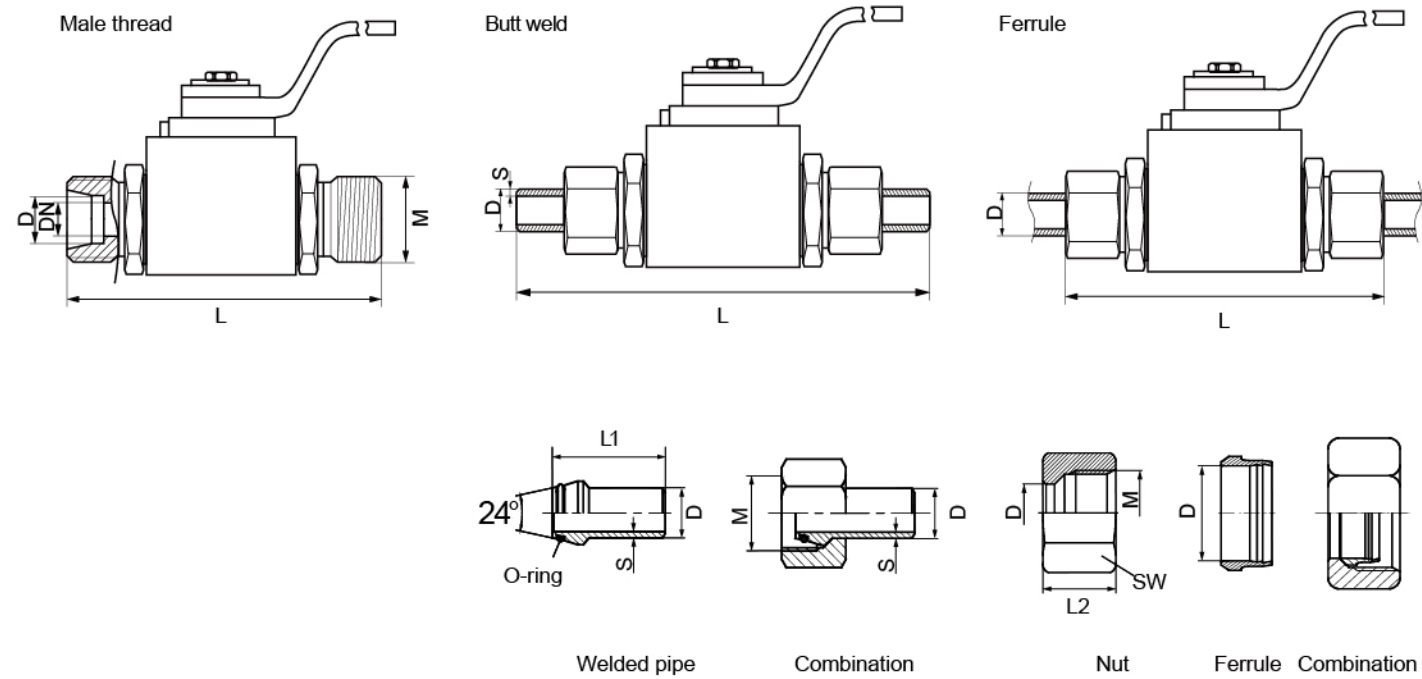
Female/Thread



SIZE	DN	L	E	H	F	B	A	M	N	ØC	G	J	SW	Remarks
1/8"	4	69	26	13	32	107	55.5	29	19	-	M5	37	9	-
1/4"	6	69	26	13	32	107	55.5	29	19	-	M5	37	9	-
3/8"	10	73	32	16.5	38	107	58	-	-	36	M5	37	9	-
1/2"	15	85	35	17.5	40	107	59	-	-	36	M5	37	9	-
3/4"	20	96	49	24.5	57	160	78	-	-	50	M6	37	14	-
1"	25	113	55	27.5	61	160	79.5	-	-	50	M6	37	14	-
1 1/4"	32	110	87	39.7	86.5	210	102	-	-	50	M6	40	17	Stainless steel
1 1/2"	40	120	95	44.2	94.2	210	102	-	-	50	M6	40	17	Stainless steel
2"	50	140	110	52.5	110	210	105	-	-	50	M8	40	17	Stainless steel
1 1/4"	32	110	79	39.5	86.3	210	105	-	-	50	M6	40	17	Carbon steel
1 1/2"	40	120	86	43	93	210	113	-	-	50	M6	40	17	Carbon steel
2"	50	140	108	54	111.5	210	113	-	-	50	M6	40	17	Carbon steel

Dimension

Male thread/Butt weld/Ferrule



DN	Pipe	D	A	B	M	Male thread	Butt Weld				Ferrule		
						L	L	S	L1	O-ring	L	L2	SW
DN4	06L	6	55.5	107	M12*1.5	67	116	1.5	30	4.5*1.5	83	14.5	14
DN6	08L	8	55.5	107	M14*1.5	67	116	1.5	30	6*1.5	83	14.5	17
DN8	10L	10	55.5	107	M16*1.5	71	122	1.5	31.5	7.5*1.5	86	15.5	19
	12S	12	55.5	107	M20*1.5	77	128	2	31.5	9*1.5	94	17.5	24
DN10	12L	12	58	107	M18*1.5	75	126	1.5	31.5	9*1.5	91	15.5	22
	14S	14	58	107	M22*1.5	84	147	2	37.5	10*2	104	20.5	27
DN13	15L	15	59	107	M22*1.5	84	144	2	36	12*2	102	17	27
	18L	18	59	107	M26*1.5	84	148	2.5	37	15*2	106	18	32
	16S	16	59	107	M24*1.5	87	150	2.5	37.5	12*2	109	20.5	30
DN16	22L	22	82	107	M30*2	88	153	3	38.5	20*2	110	20	36
	20S	20	82	152	M30*2	91	162	3	43.5	16.3*24	113	24	36
DN20	28L	28	78	152	M36*2	106.6	178	4	41.5	26*2	128	21	41
	25S	25	78	160	M36*2	110	190	4	48.5	20.3*2.4	138	27	46
DN25	35L	35	79.5	160	M45*2	114	190	4	47	32*2.5	140	24	50
	30S	30	79.5	160	M42*2	120	206	4	51.5	25.3*2.4	150	29	50
DN32	42L	42	102	210	M52*2	128	205	5	47	38*2.5	-	-	-
	38S	38	102	210	M52*2	140	233	5	55.5	33.3*2.4	-	-	-
DN40	48L	48	105	210	M58*2	150	226	6	47	43*2.5	-	-	-
	50S	50	105	210	M68*2	165	262	7	61	46*3	-	-	-
DN50	60S	60	113	210	M76*2	174	276	7	61	53*3	-	-	-

Above the standard selection, special requirements please call Aisenberg consulting.

Specification

DESIGN

Forged valve body

OPERATION

Pneumatic double-acting or single-acting

CONNECTION

G/NPT/RC/Male thread/ferrule connection/welding

PRESSURE RANGE

1/8" - 3/8" PN 500;
1/2" - 3/4" PN 400;
1" - 2" PN 350;

TEMPERATURE RANGE

POM: -30- +100°C
PEEK: -30- +200°C

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MATERIALS

Body: A105
F304
F316

Ball: 304SS
316SS

Seat: POM/PEEK

Packing: FPM

EXTERNAL TEMPERATURE RANGE

-20°C - +70°C

PILOT MEDIA

Filtered gases (oil, ash and water removal)

OPTIONS

3/2-ways or 5/2-ways valve, limit switch, indicator, positioner, filter reducer, manual clutch



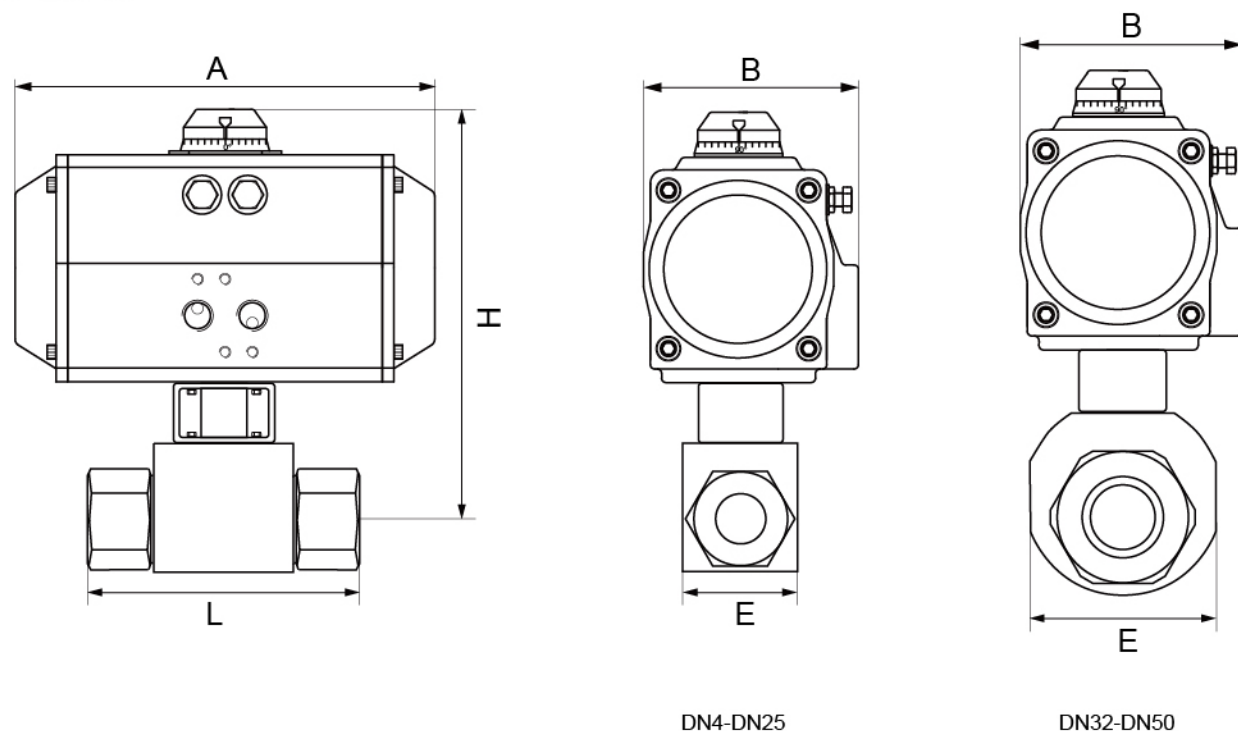
Type:
A400

Pneumatic high pressure ball valve

A105
F304
F316

Dimension

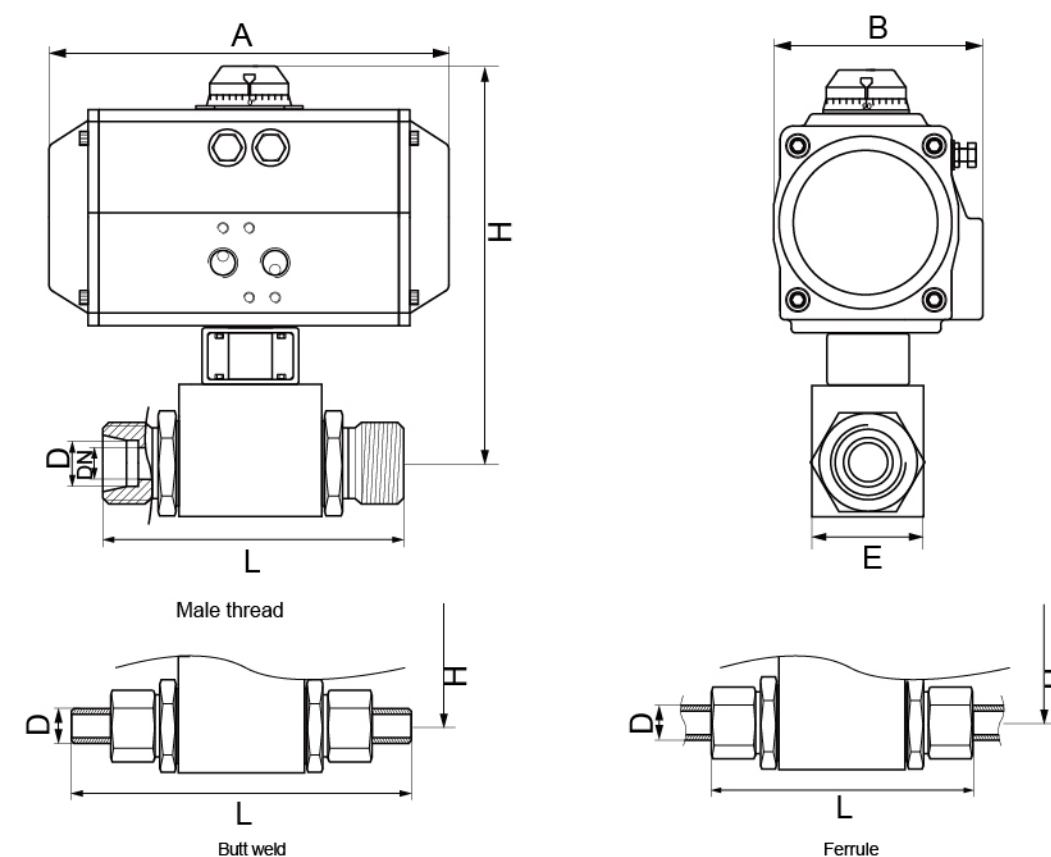
G/NPT Thread



SIZE	DN	POM			PEEK			L	E	Remarks		
		Actuator Model	A	B	H	Actuator Model	A				B	H
1/8"	4	DA52	147	72	158	DA52	147	72	158	69	26	-
1/8"	4	SR52	147	72	158	SR63	166	83	174	69	26	-
1/4"	6	DA52	147	72	158	DA52	147	72	158	69	26	-
1/4"	6	SR52	147	72	158	SR63	166	83	174	69	26	-
3/8"	10	DA52	147	72	160.5	DA52	147	72	160.5	73	32	-
3/8"	10	SR63	166	83	176.5	SR75	184	95	188.5	73	32	-
1/2"	15	DA52	147	72	161.5	DA63	166	83	177.5	85	35	-
1/2"	15	SR75	184	95	189.5	SR75	184	95	189.5	85	35	-
3/4"	20	DA63	166	83	187.5	DA75	184	95	199.5	96	49	-
3/4"	20	SR83	204	103	208.5	SR83	204	103	208.5	96	49	-
1"	25	DA75	184	95	200.5	DA83	204	103	209.5	113	55	-
1"	25	SR83	204	103	209.5	SR92	262	109	217.5	113	55	-
1 1/4"	32	DA83	204	103	225.8	DA92	262	109	233.8	110	87	Stainless steel
1 1/4"	32	SR92	262	109	233.8	SR105	268	121	249.8	110	87	Stainless steel
1 1/2"	40	DA92	262	109	237	DA105	268	121	253	120	95	Stainless steel
1 1/2"	40	SR105	268	121	253	SR125	301	143	275	120	95	Stainless steel
2"	50	DA105	268	121	260.5	DA105	268	121	260.5	140	110	Stainless steel
2"	50	SR125	301	143	282.5	SR125	301	143	282.5	140	110	Stainless steel
1 1/4"	32	DA83	204	103	225.8	DA82	262	109	233.8	110	79	Carbon steel
1 1/4"	32	SR92	262	109	233.8	SR105	268	121	249.8	110	79	Carbon steel
1 1/2"	40	DA92	262	109	237	DA105	268	121	253	120	86	Carbon steel
1 1/2"	40	SR105	268	121	253	SR125	301	143	275	120	86	Carbon steel
2"	50	DA105	268	121	260.5	DA105	268	121	260.5	140	108	Carbon steel
2"	50	SR125	301	143	282.5	SR125	301	143	282.5	140	108	Carbon steel

Dimension

Male thread/Butt weld/Ferrule



DN	Pipe	D	POM			PEEK			L			E	Remarks		
			Actuator Model	A	B	H	Actuator Model	A	B	H	Male thread			Butt Weld	Ferrule
DN4	06L	6	DA52	147	72	158	DA52	147	72	158	67	116	83	26	-
	06L	6	SR52	147	72	158	SR63	166	83	174	67	116	83	26	-
DN6	08L	8	DA52	147	72	158	DA52	147	72	158	67	116	83	26	-
	08L	8	SR52	147	72	158	SR63	166	83	174	67	116	83	26	-
DN8	10L	10	DA52	147	72	158	DA52	147	72	158	71	122	86	26	-
	10L	10	SR63	166	83	174	SR75	184	95	186	71	122	86	26	-
	12S	12	DA52	147	72	158	DA52	147	72	158	77	128	94	26	-
	12S	12	SR63	166	83	174	SR75	184	95	186	77	128	94	26	-
DN10	12L	12	DA52	147	72	160.5	DA52	147	72	160.5	75	126	91	32	-
	12L	12	SR63	166	83	176.5	SR75	184	95	188.5	75	126	91	32	-
	14S	14	DA52	147	72	160.5	DA52	147	72	160.5	84	147	104	32	-
	14S	14	SR63	166	83	176.5	SR75	184	95	188.5	84	147	104	32	-
DN13	15L	15	DA52	147	72	161.5	DA63	166	83	177.5	84	144	102	35	-
	15L	15	SR75	184	95	189.5	SR75	184	95	189.5	84	144	102	35	-
	18L	18	DA52	147	72	161.5	DA63	166	83	177.5	84	148	106	35	-
	18L	18	SR75	184	95	189.5	SR75	184	95	189.5	84	148	106	35	-
	16S	16	DA52	147	72	161.5	DA63	166	83	177.5	87	150	109	35	-
	16S	16	SR75	184	95	189.5	SR75	184	95	189.5	87	150	109	35	-

Dimension

DN	Pipe	D	POM			PEEK			L			E	Remarks		
			Actuator Model	A	B	H	Actuator Model	A	B	H	Male thread			Butt Weld	Tube
DN16	22L	22	DA 63	166	83	182	DA 75	184	95	194	88	153	110	38	-
	22L	22	SR 75	184	95	194	SR 83	204	103	203	88	153	110	38	-
	20S	20	DA 63	166	83	182	DA 75	184	95	194	91	162	113	38	-
	20S	20	SR 75	184	95	194	SR 83	204	103	203	91	162	113	38	-
DN20	28L	28	DA 63	166	83	187.5	DA 75	184	95	199.5	106.6	178	128	49	-
	28L	28	SR 83	204	103	208.5	SR 83	204	103	208.5	106.6	178	128	49	-
	25S	25	DA 63	166	83	187.5	DA 75	184	95	199.5	110	190	138	49	-
	25S	25	SR 83	204	103	208.5	SR 83	204	103	208.5	110	190	138	49	-
DN25	35L	35	DA 75	184	95	200.5	DA 83	204	103	200.5	114	190	140	55	-
	35L	35	SR 83	204	103	209.5	SR 92	262	109	217.5	114	190	140	55	-
	30S	30	DA 75	184	95	200.5	DA 83	204	103	200.5	120	206	150	55	-
	30S	30	SR 83	204	103	209.5	SR 92	262	109	217.5	120	206	150	55	-
DN32	42L	42	DA 83	204	103	226	DA 92	262	109	234	128	205	-	87	Stainless steel
	42L	42	SR 92	262	109	234	SR 105	268	121	250	128	205	-	87	Stainless steel
	38S	38	DA 83	204	103	226	DA 92	262	109	234	140	233	-	87	Stainless steel
	38S	38	SR 92	262	109	234	SR 105	268	121	250	140	233	-	87	Stainless steel
DN40	48L	48	DA 92	262	109	237	DA 105	268	121	253	150	226	-	95	Stainless steel
	48L	48	SR 105	268	121	253	SR 125	301	143	275	150	226	-	95	Stainless steel
	50S	50	DA 92	262	109	237	DA 105	268	121	253	165	262	-	95	Stainless steel
	50S	50	SR 105	268	121	253	SR 125	301	143	275	165	262	-	95	Stainless steel
DN50	60S	60	DA 105	268	121	261	DA 105	268	121	261	174	276	-	1100	Stainless steel
	60S	60	SR 125	301	143	283	SR 125	301	143	283	174	276	-	1100	Stainless steel
DN32	42L	42	DA 83	204	103	226	DA 92	262	109	234	128	205	-	79	Carbon steel
	42L	42	SR 92	262	109	234	SR 105	268	121	250	128	205	-	79	Carbon steel
	38S	38	DA 83	204	103	226	DA 92	262	109	234	140	233	-	79	Carbon steel
	38S	38	SR 92	262	109	234	SR 105	268	121	250	140	233	-	79	Carbon steel
DN40	48L	48	DA 92	262	109	237	DA 105	268	121	253	150	226	-	86	Carbon steel
	48L	48	SR 105	268	121	253	SR 125	301	143	275	150	226	-	86	Carbon steel
	50S	50	DA 92	262	109	237	DA 105	268	121	253	165	262	-	86	Carbon steel
	50S	50	SR 105	268	121	253	SR 125	301	143	275	165	262	-	86	Carbon steel
DN50	60S	60	DA 105	268	121	261	DA 105	268	121	261	174	276	-	108	Carbon steel
	60S	60	SR 125	301	143	283	SR 125	301	143	283	174	276	-	108	Carbon steel

A400 Electric high-pressure ball valve

Aisenberg®

Specification

DESIGN

Forged valve body

OPERATION

Electric with handle operation

CONNECTION

G/NPT/RC/Male thread/ferrule connection/welding

PRESSURE RANGE

1/8" - 3/8" PN 500;
1/2" - 3/4" PN 400;
1" - 2" PN 350;

TEMPERATURE RANGE

POM: -30- +100°C
PEEK: -30- +200°C

MATERIALS

Body: A105
F304
F316

Ball: 304SS
316SS

Seat: POM/PEEK

Packing: FPM

OPTIONAL VOLTAGE

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

PROTECTION

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 more requests please contact us



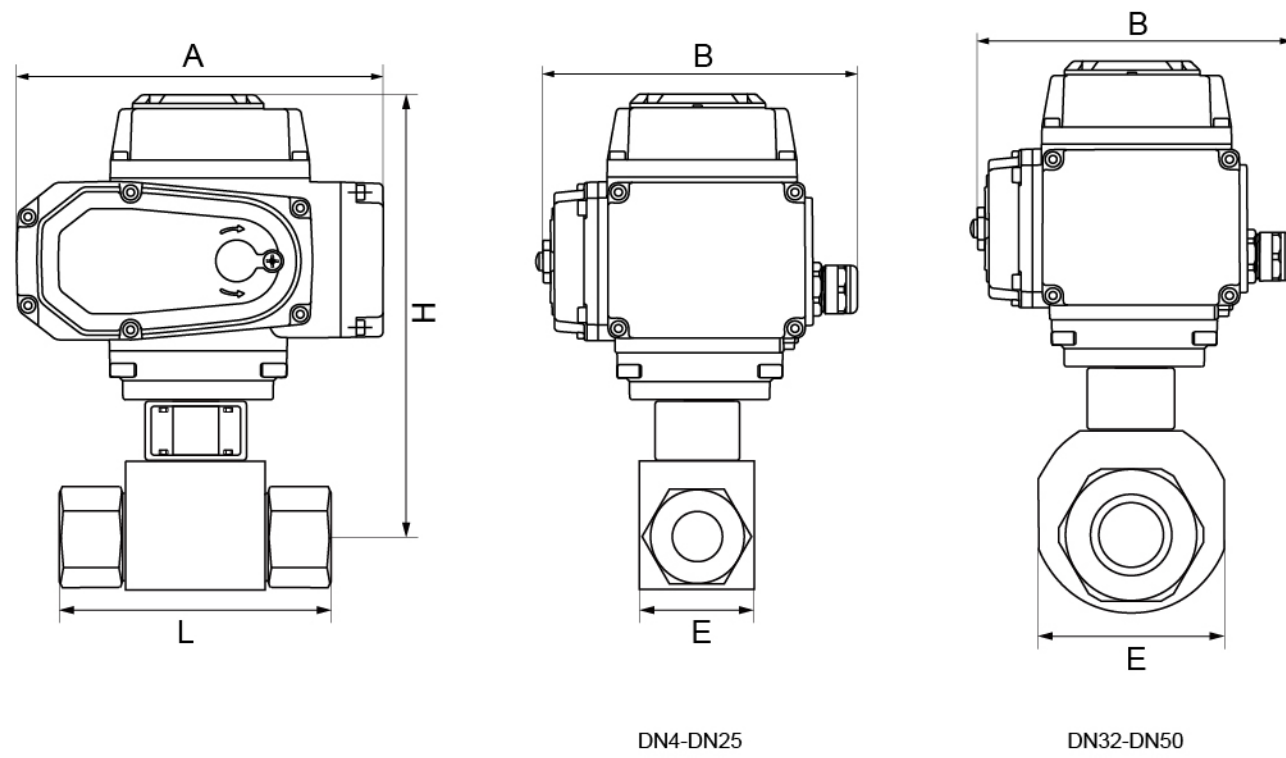
Type:
A400

Electric high pressure
ball valve

A105
F304
F316

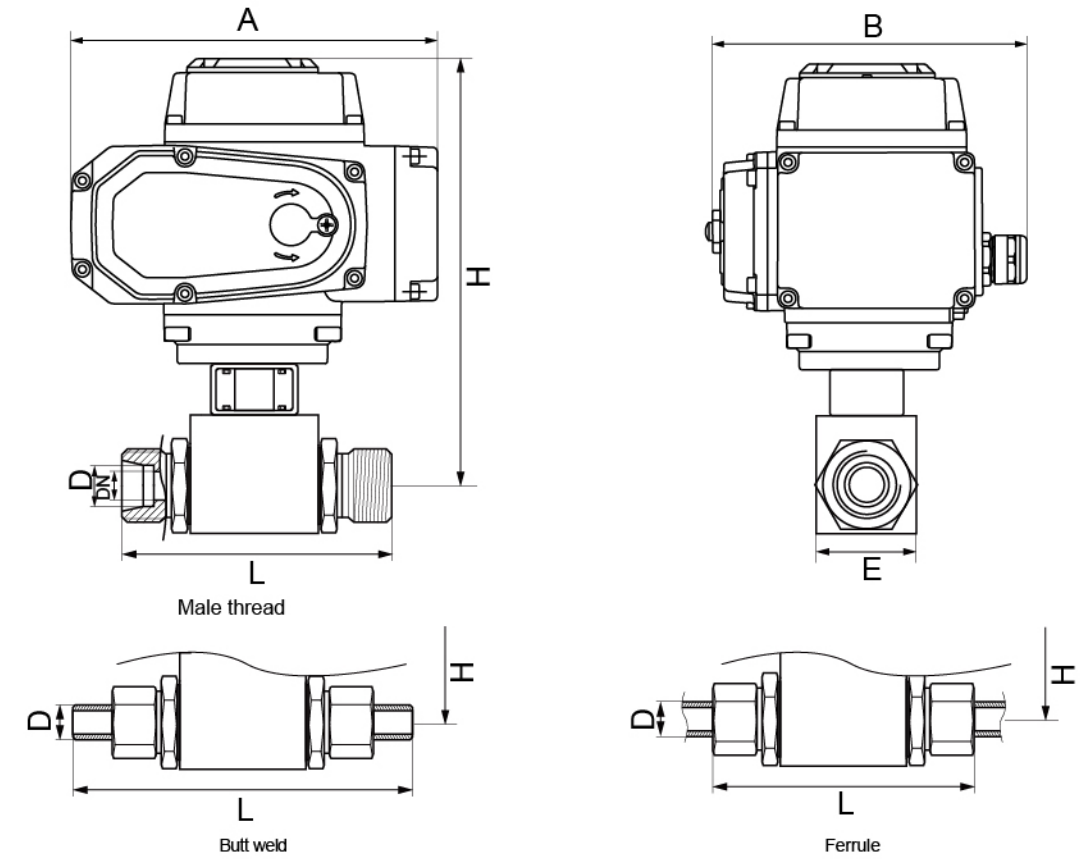
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Dimension
G/NPT Thread



SIZE	DN	POMPEEK				L	E	Remarks
		Actuator Model	A	B	H			
1/8"	4	HB50	165	140.5	193.5	69	26	-
1/8"	4	HBX50	170.5	120.5	206	69	26	-
1/4"	6	HB50	165	140.5	193.5	69	26	-
1/4"	6	HBX50	170.5	120.5	206	69	26	-
3/8"	10	HB50	165	140.5	196	73	32	-
3/8"	10	HBX50	170.5	120.5	208.5	73	32	-
1/2"	15	HB50	165	140.5	197	85	35	-
1/2"	15	HBX50	170.5	120.5	209.5	85	35	-
3/4"	20	HB50	165	140.5	207	96	49	-
3/4"	20	HBX50	170.5	120.5	219.5	96	49	-
1"	25	HB50	165	140.5	208	113	55	-
1"	25	HBX50	170.5	120.5	220.5	113	55	-
1 1/4"	32	HB100	211.5	154	255.3	110	87	Stainless steel
1 1/4"	32	HBX100	217.5	139	268.8	110	87	Stainless steel
1 1/2"	40	HB100	211.5	154	258.5	120	95	Stainless steel
1 1/2"	40	HBX100	217.5	139	272	120	95	Stainless steel
2"	50	HB100	211.5	154	266	140	110	Stainless steel
2"	50	HBX100	217.5	139	279.5	140	110	Stainless steel
1 1/4"	32	HB100	211.5	154	255.3	110	79	Carbon steel
1 1/4"	32	HBX100	217.5	139	268.8	110	79	Carbon steel
1 1/2"	40	HB100	211.5	154	258.5	120	86	Carbon steel
1 1/2"	40	HBX100	217.5	139	272	120	86	Carbon steel
2"	50	HB100	211.5	154	266	140	108	Carbon steel
2"	50	HBX100	217.5	139	279.5	140	108	Carbon steel

Dimension
Male thread/Butt weld/Ferrule



DN	Pipe	D	POMPEEK				L			E	Remarks
			Actuator Model	A	B	H	Male thread	Butt Weld	Ferrule		
DN4	06L	6	HB50	165	141	193.5	67	116	83	26	-
	06L	6	HBX50	171	121	206	67	116	83	26	-
DN6	08L	8	HB50	165	141	193.5	67	116	83	26	-
	08L	8	HBX50	171	121	206	67	116	83	26	-
DN8	10L	10	HB50	165	141	193.5	71	122	86	26	-
	10L	10	HBX50	171	121	206	71	122	86	26	-
	12S	12	HB50	165	141	193.5	77	128	94	26	-
	12S	12	HBX50	171	121	206	77	128	94	26	-
DN10	12L	12	HB50	165	141	196	75	126	91	32	-
	12L	12	HBX50	171	121	208.5	75	126	91	32	-
	14S	14	HB50	165	141	196	84	147	104	32	-
	14S	14	HBX50	171	121	208.5	84	147	104	32	-
DN13	15L	15	HB50	165	141	197	84	144	102	35	-
	15L	15	HBX50	171	121	209.5	84	144	102	35	-
	18L	18	HB50	165	141	197	84	148	106	35	-
	18L	18	HBX50	171	121	209.5	84	148	106	35	-
	16S	16	HB50	165	141	197	87	150	109	35	-
	16S	16	HBX50	171	121	209.5	87	150	109	35	-

DN	Pipe	D	POMPEEK				L			E	Remarks
			Actuator Model	A	B	H	Male thread	Butt Weld	Ferrule		
DN16	22L	22	HB50	165	141	201.5	88	153	110	38	-
	22L	22	HBX50	171	121	214	88	153	110	38	-
	20S	20	HB50	165	141	201.5	91	162	113	38	-
	20S	20	HBX50	171	121	214	91	162	113	38	-
DN20	28L	28	HB50	165	141	207	106.6	178	128	49	-
	28L	28	HBX50	171	121	219.5	106.6	178	128	49	-
	25S	25	HB50	165	141	207	110	190	138	49	-
	25S	25	HBX50	171	121	219.5	110	190	138	49	-
DN25	35L	35	HB50	165	141	208	114	190	140	55	-
	35L	35	HBX50	171	121	220.5	114	190	140	55	-
	30S	30	HB50	165	141	208	120	206	150	55	-
	30S	30	HBX50	171	121	220.5	120	206	150	55	-
DN32	42L	42	HB100	211.5	154	255	128	205	-	87	Stainless steel
	42L	42	HBX100	217.5	139	269	128	205	-	87	Stainless steel
	38S	38	HB100	211.5	154	255	140	233	-	87	Stainless steel
	38S	38	HBX100	217.5	139	269	140	233	-	87	Stainless steel
DN40	48L	48	HB100	211.5	154	259	150	226	-	95	Stainless steel
	48L	48	HBX100	217.5	139	272	150	226	-	95	Stainless steel
	50S	50	HB100	211.5	154	259	165	262	-	95	Stainless steel
	50S	50	HBX100	217.5	139	272	165	262	-	95	Stainless steel
DN50	60S	60	HB100	211.5	154	266	174	276	-	1100	Stainless steel
	60S	60	HBX100	217.5	139	280	174	276	-	1100	Stainless steel
DN32	42L	42	HB100	211.5	154	255	128	205	-	79	Carbon steel
	42L	42	HBX100	217.5	139	269	128	205	-	79	Carbon steel
	38S	38	HB100	211.5	154	255	140	233	-	79	Carbon steel
	38S	38	HBX100	217.5	139	269	140	233	-	79	Carbon steel
DN40	48L	48	HB100	211.5	154	259	150	226	-	86	Carbon steel
	48L	48	HBX100	217.5	139	272	150	226	-	86	Carbon steel
	50S	50	HB100	211.5	154	259	165	262	-	86	Carbon steel
	50S	50	HBX100	217.5	139	272	165	262	-	86	Carbon steel
DN50	60S	60	HB100	211.5	154	266	174	276	-	108	Carbon steel
	60S	60	HBX100	217.5	139	280	174	276	-	108	Carbon steel