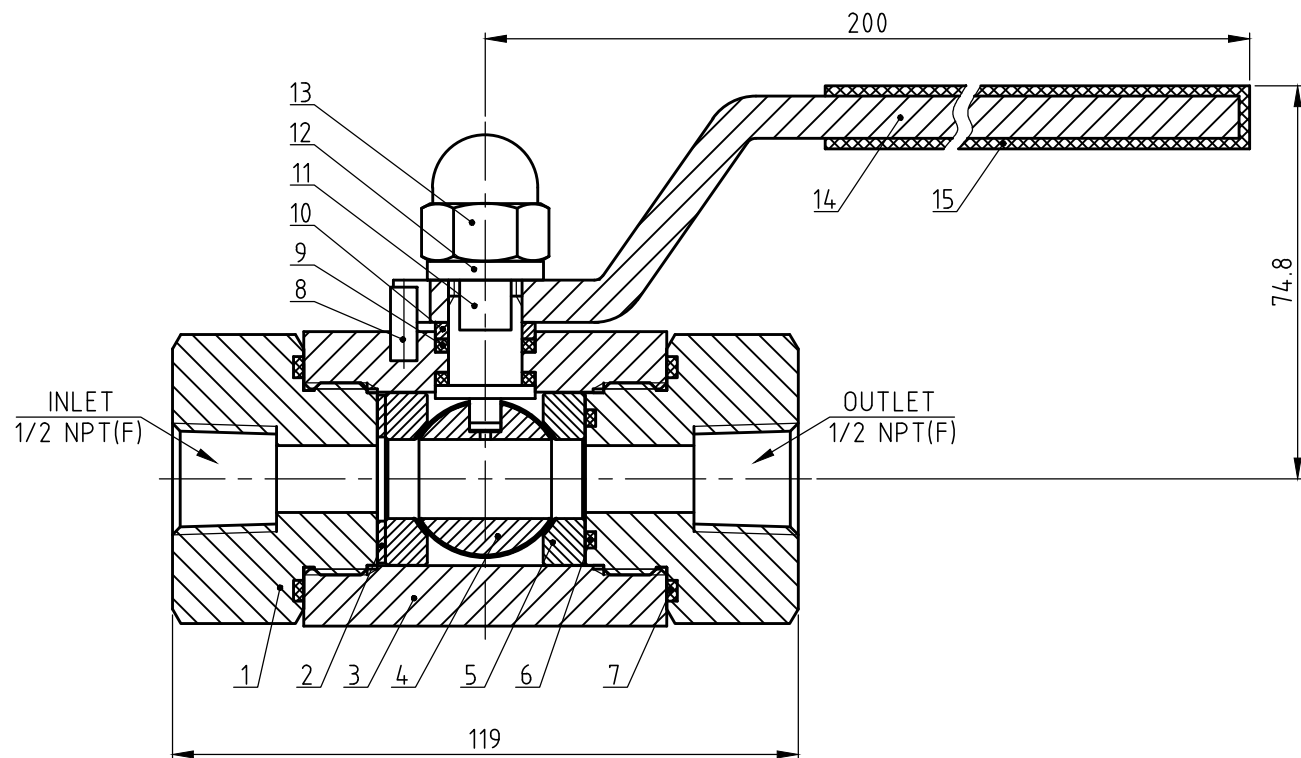




Component		Material Grade
1	Connect	316.S.S/ASTM A479
2	Disc Spring	Inconel 718
3	Body	316.S.S/ASTM A479
4	Ball	316.S.S Ni coating
5	Seat	316.S.S Ni coating
6	Seal	Graphite
7	Seal	Graphite
8	Pin	304.S.S
9	Packing	Graphite
10	Gland	316.S.S/ASTM A479
11	Stem	316.S.S/ASTM A479
12	Spring Washer	304.S.S
13	Nut	304.S.S
14	Handle	304.S.S
15	Handle Sleeve	PVC

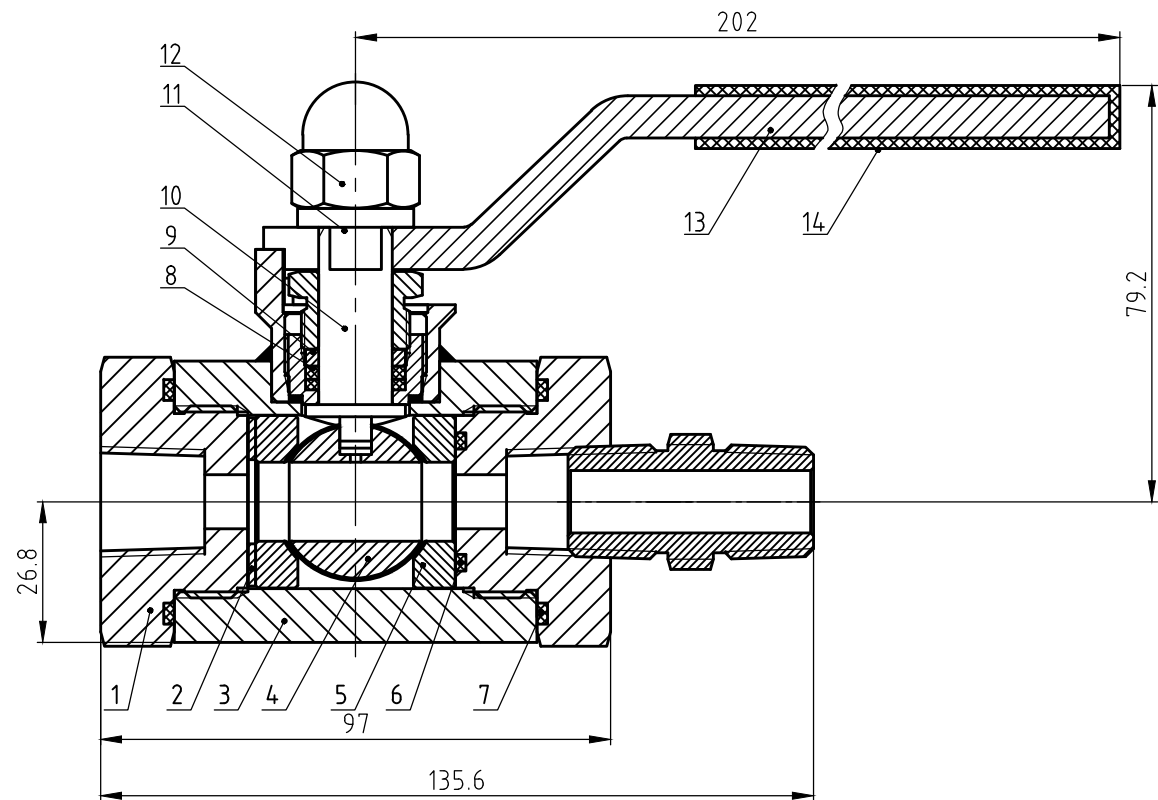
Technical Data:

Orifice Size	12.7mm
INLET	1/2 NPT(F)
OUTLET	1/2 NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	1000 (68.9)	700 (371)	1000 (68.9)
200 (93)	1000 (68.9)	800 (426)	1000 (68.9)
300 (148)	1000 (68.9)	850 (454)	1000 (68.9)
400 (204)	1000 (68.9)		
500 (260)	1000 (68.9)		
600 (315)	1000 (68.9)		

A	Jul.23.2019				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT8-13-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A479
4	Ball	316 S.S.+HVOF coating
5	Seat	316 S.S.+HVOF coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Spring Washer	304 S.S.
12	Nut	304 S.S.
13	Handle	304 S.S.
14	Handle Sleeve	PVC

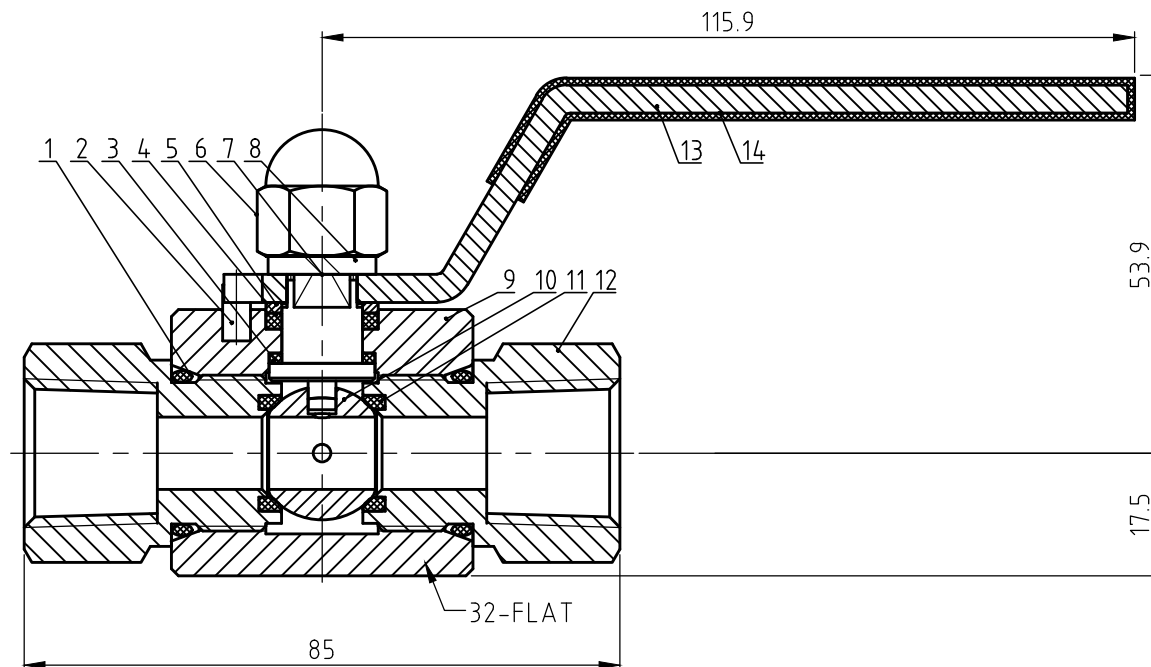
Technical Data:

Orifice Size	10.3mm
INLET	1/2NPT(F)
OUTLET	1/2NPT(M)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	3000 (206.4)	700 (371)	2042 (140.8)
200 (93)	2906 (200)	800 (426)	1731 (119.1)
300 (148)	2800 (192.7)	900 (482)	1420 (97.7)
400 (204)	2630 (181)	1000 (537)	981 (67.5)
500 (260)	2470 (170)	1100 (593)	690 (47.4)
600 (315)	2264 (155.8)	1200 (648)	395 (27.2)

A	Aug.1, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT8-NPT8-10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	316 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	316 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	316 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Handle	316 S.S./ASTM A240
14	Handle Sleeve	PVC

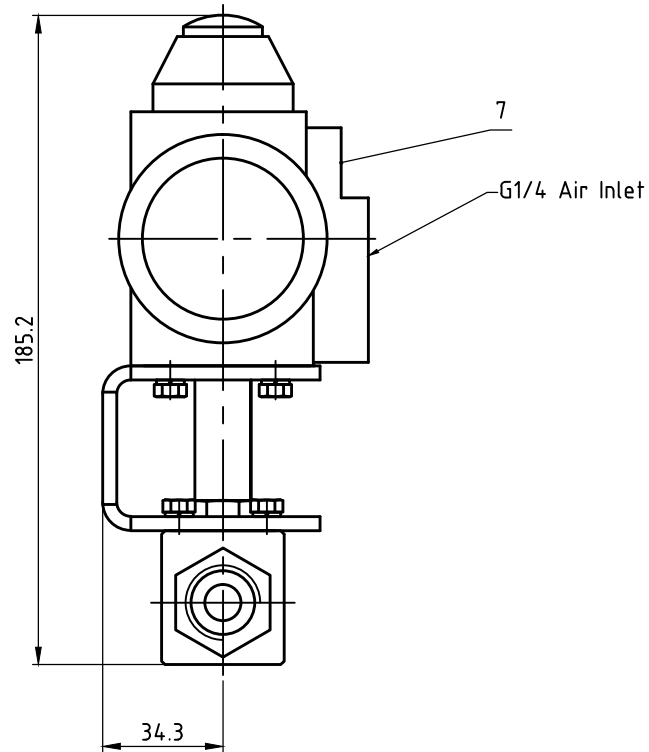
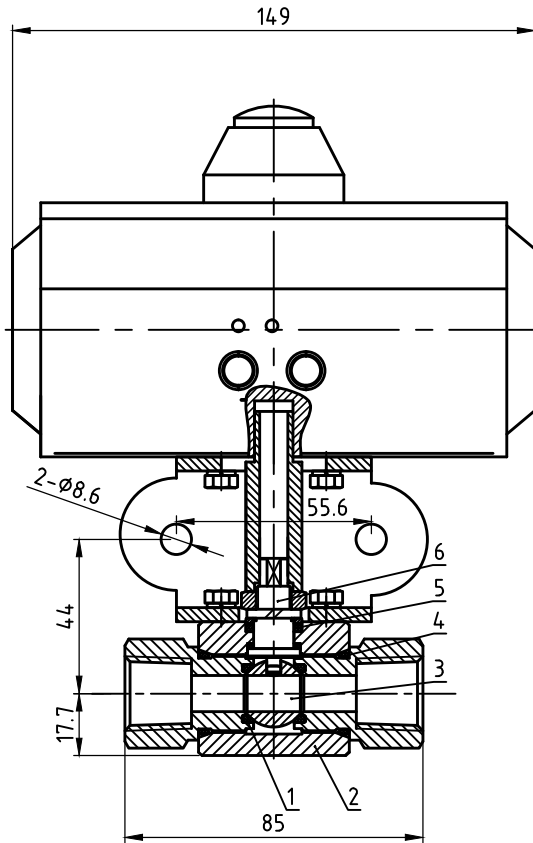
Technical Data:

Orifice Size	10mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Mar.08, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-FNPT8-P10-316-FC301		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PEEK
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	FKM
5	Packing	PTFE/ASTM D1710
6	Stem	316 S.S./ASTM A479
7	Pneumatic Actuators	

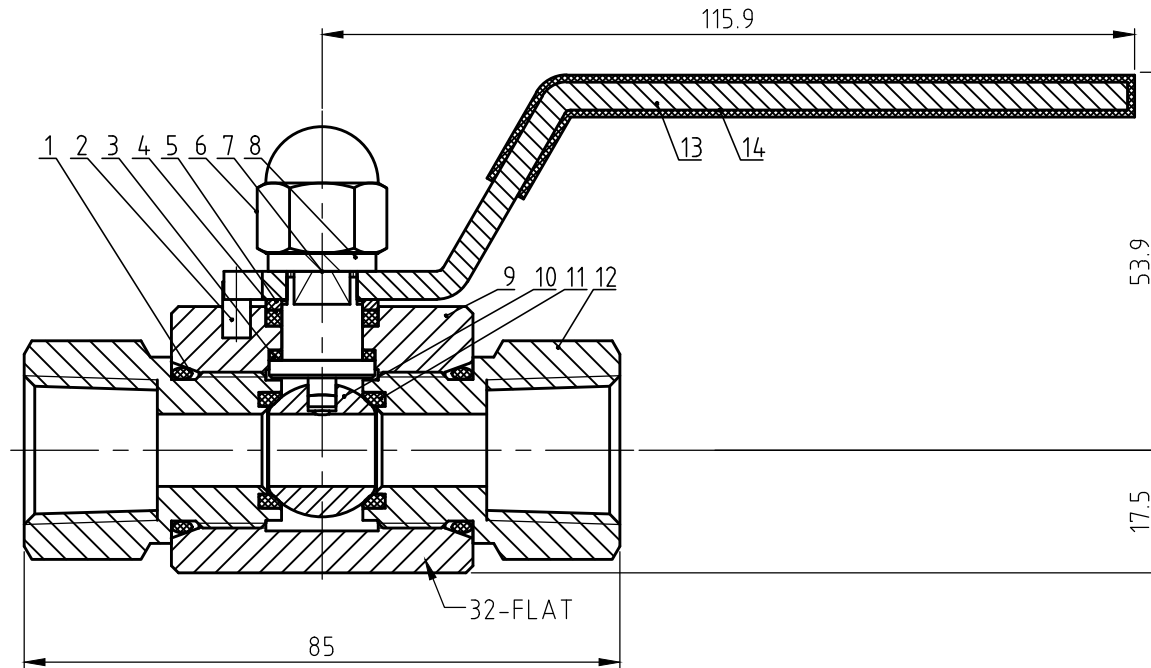
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2 NPT (F)
Outlet Size	1/2 NPT (F)
Cv	7.5
Pneumatic Actuators Type	Spring return
Valve Position	Normal Close
Working voltage	DC24V
Air source drive pressure	5-7bar

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Feb.21, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT8-P10-PSC-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A479
6	Nut	304 S.S.
7	Stem	Grade 4/ASTM B348
8	Spring Washer	304 S.S.
9	Body	Grade F-4/ASTM B381
10	Ball	Grade 4/ASTM B348
11	Seat	PEEK
12	Connect	Grade 4/ASTM B348
13	Handle	304 S.S.
14	Handle Sleeve	PVC

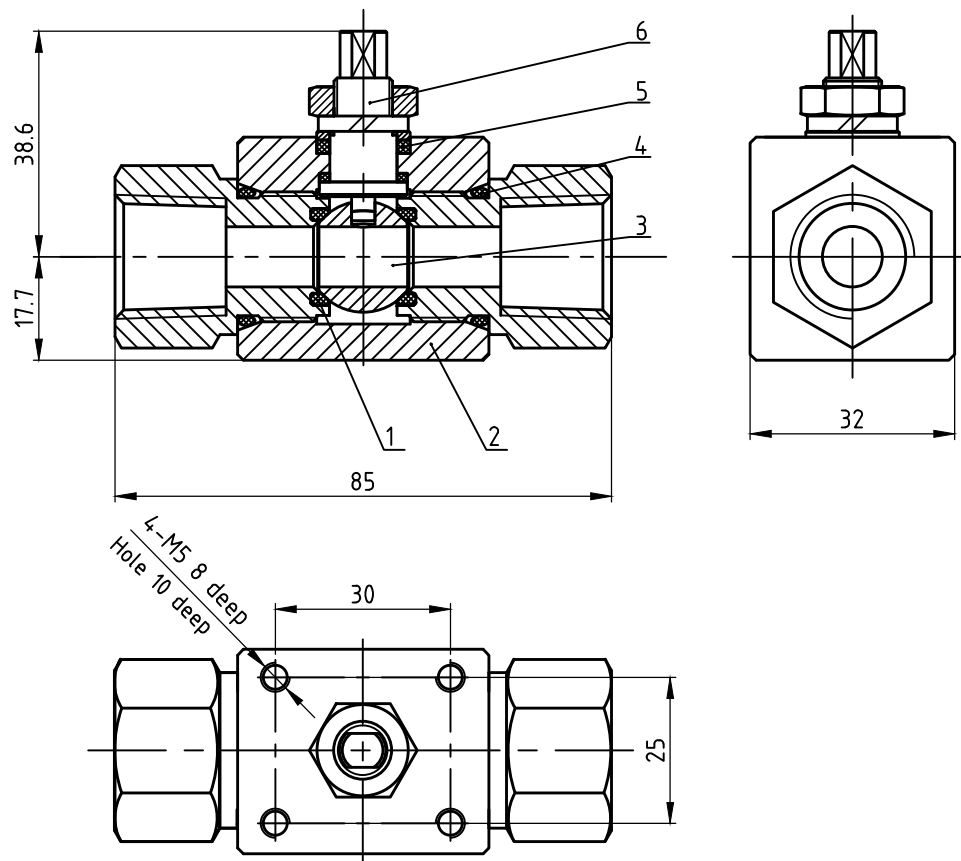
Technical Data:

Orifice Size	10mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Oct.21, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-FNPT8-P10-TI		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PFA
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	Silastic
5	Packing	PTFE/ASTM D1710
6	Stem	316 S.S./ASTM A479

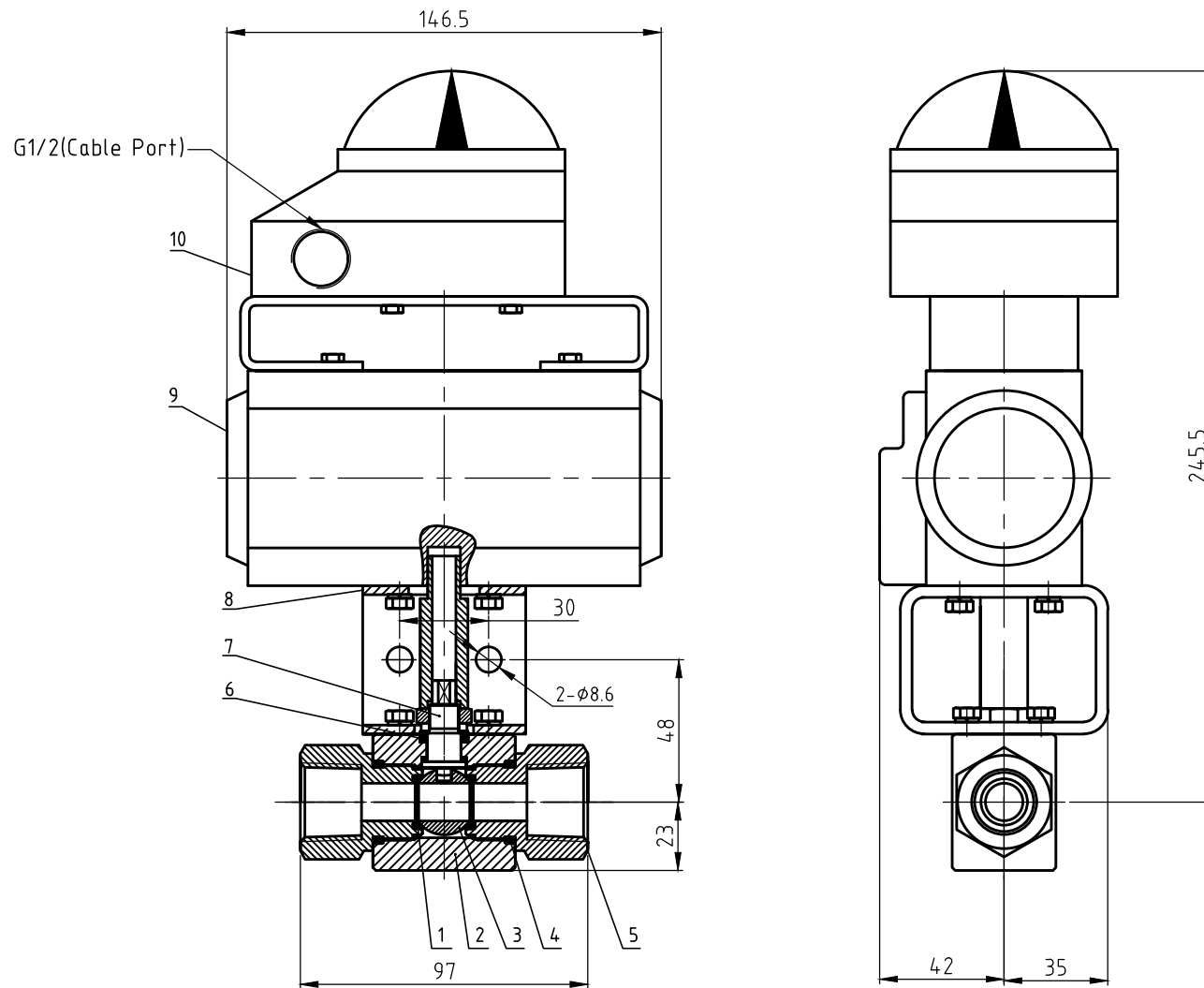
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2 NPT (F)
Outlet Size	1/2 NPT (F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	1500 (103)		

A	Apr.08, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT8-T10-316-LT-FD601		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PEEK
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	FKM
5	Connector	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Stem	316 S.S./ASTM A479
8	Bracket	304 S.S.
9	Pneumatic Actuators	
10	Limit Switch	

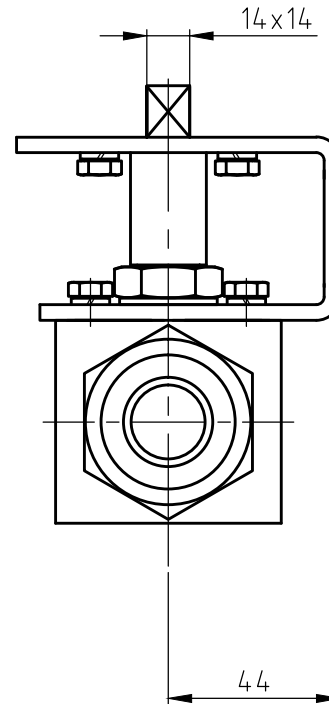
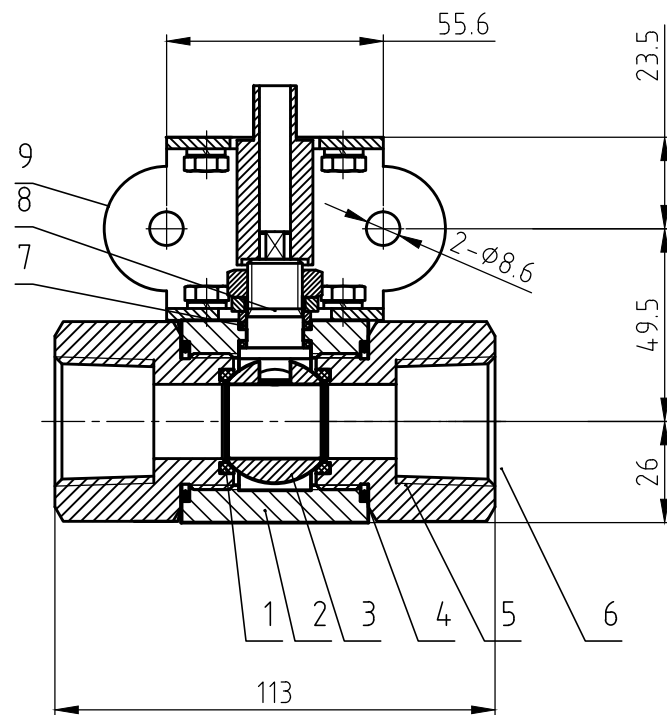
Technical Data:

Orifice Size	12.7mm
Inlet Size	3/4 NPT(F)
Outlet Size	3/4 NPT(F)
Type	Spring return
Set position	Normally Close
Drive air pressure	5~7bar
Voltage	24V DC
Current output signal unit	4~20mA DC

Pressure vs. Temperature Ratings:

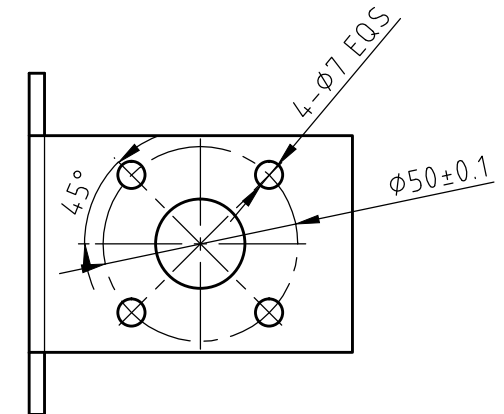
Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Sep.24, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-FNPT12-P13-PSC-316-M1		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PEEK
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	FKM
5	Connector	316 S.S./ASTM A479
6	Gasket	PTFE/ASTM D1710
7	Packing	PTFE/ASTM D1710
8	Stem	316 S.S./ASTM A479
9	Bracket	304 S.S.

Bracket Mounting Hole



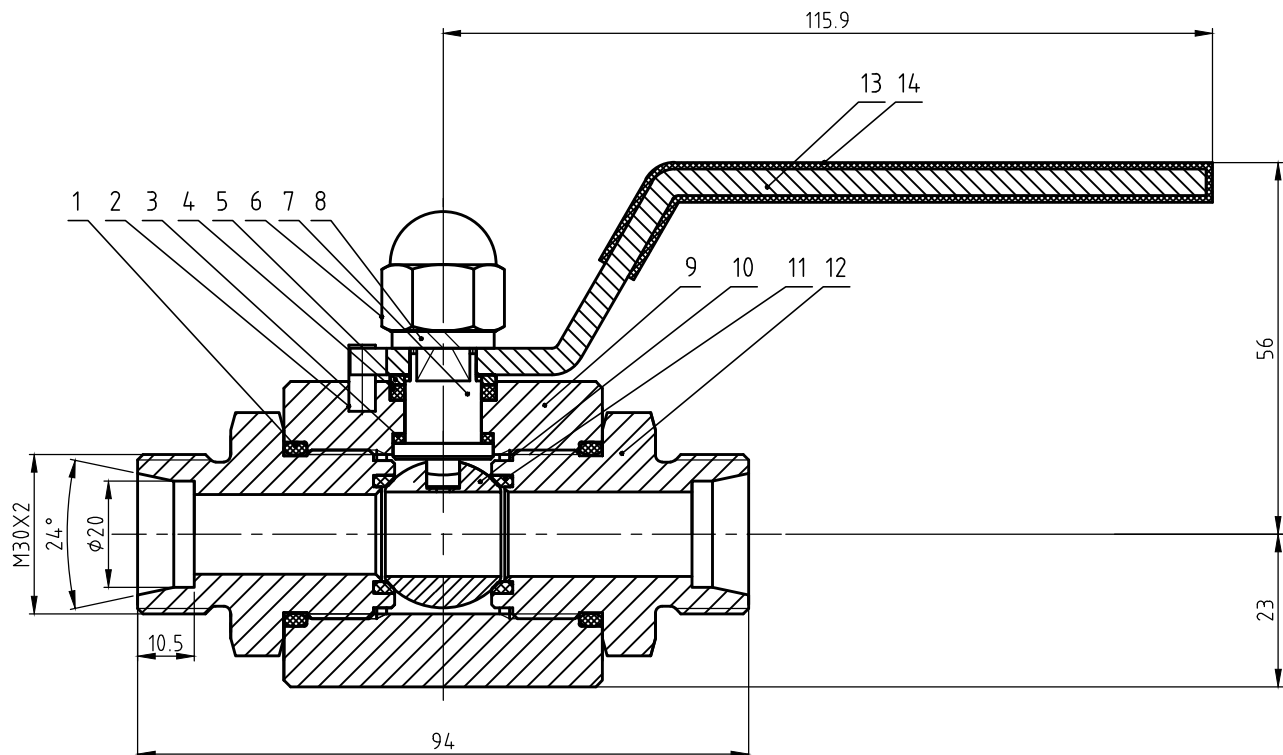
Technical Data:

Orifice Size	19mm
Inlet Size	1 NPT(F)
Outlet Size	1 NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96.4)		
450 (232)	500(34.4)		

A	Mar.23, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-FNPT16-P19-316-FCM01		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	316.S.S/ASTM A479
2	Pin	316.S.S/ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	316.S.S/ASTM A479
8	Spring Washer	304.S.S
9	Body	316.S.S/ASTM A479
10	Ball	316.S.S/ASTM A479
11	Seat	PEEK
12	Connect	316.S.S/ASTM A479
13	Handle	304.S.S
14	Handle sleeve	PVC

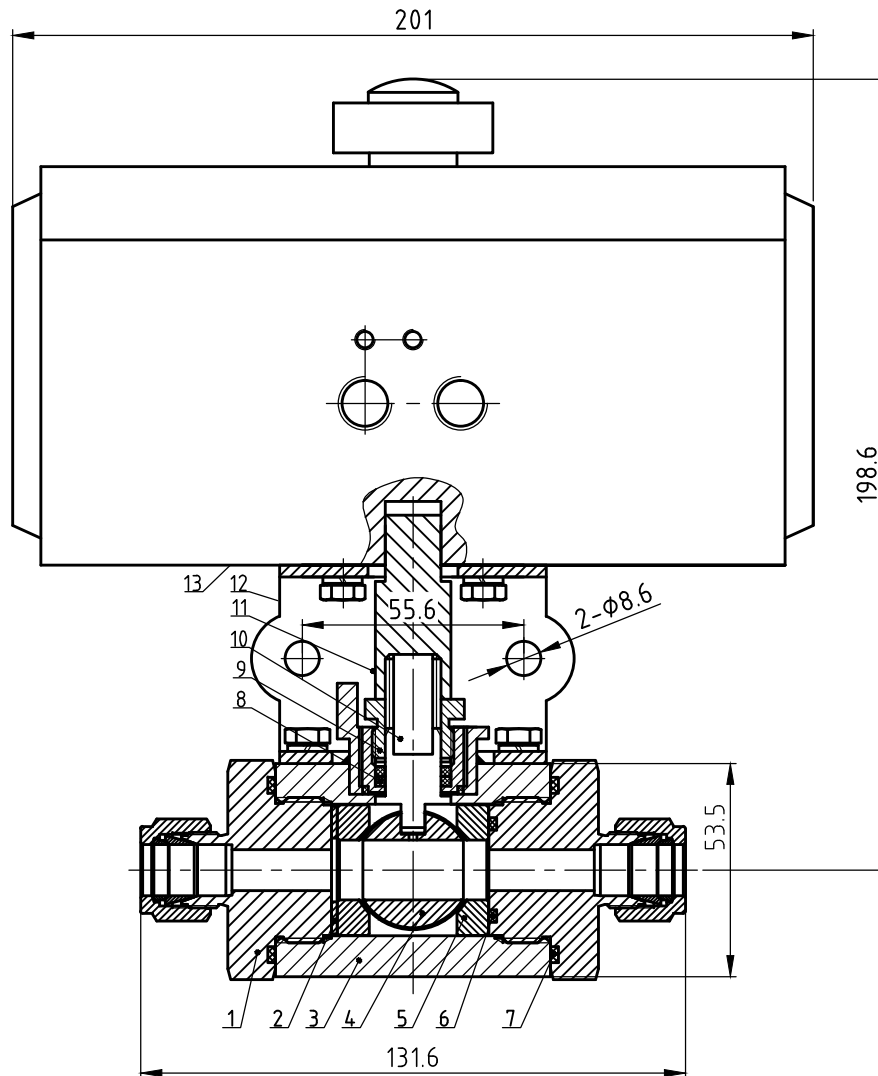
Technical Data:

Orifice Size	12.7mm
Inlet Size	ISO 8434-1 O.D.Ø20-M30X2
Outlet Size	ISO 8434-1 O.D.Ø20-M30X2

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Oct.21, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-24C20S-P13-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A182
4	Ball	316 S.S.+HVOF coating
5	Seat	316 S.S.+HVOF coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Adaptor	304 S.S.
12	Bracket	304 S.S.
13	Pneumatic Actuators	

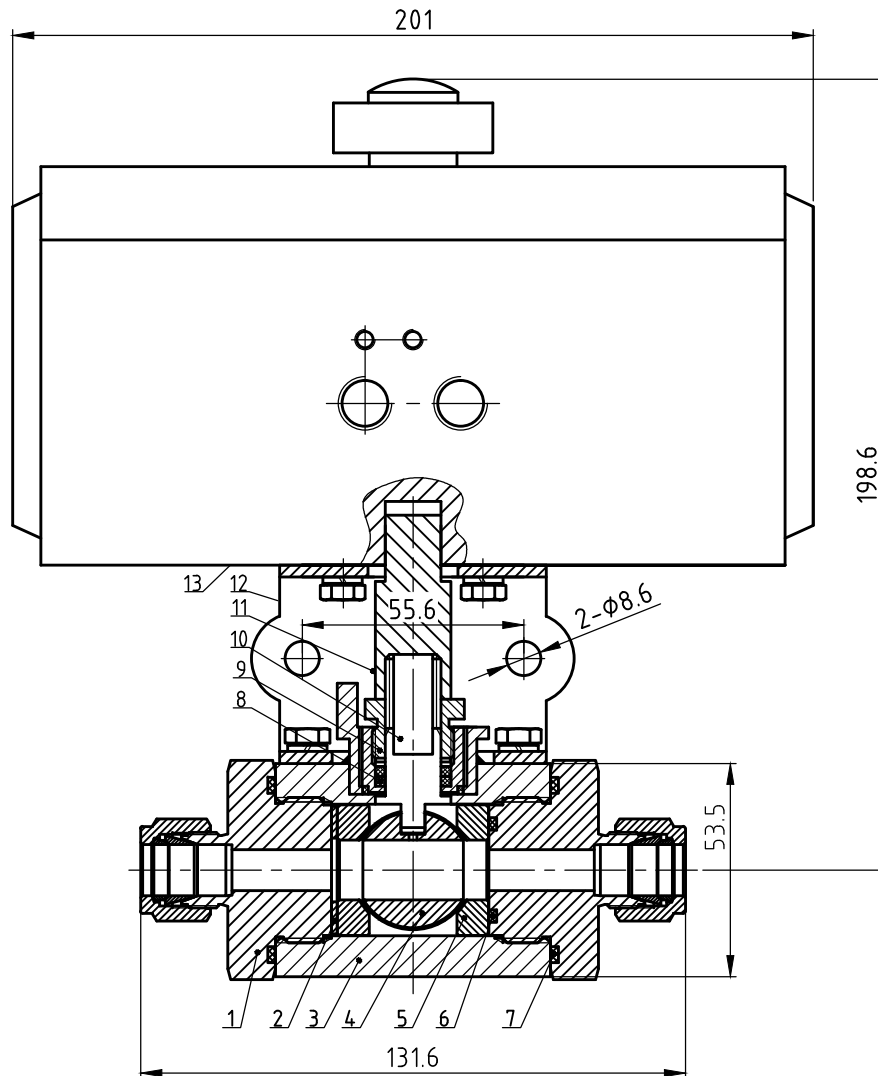
Pressure vs. Temperature Ratings:

Technical Data:

Temperature Range	-20°F (-28°C) to 1200°F (648°C)
Orifice Size	10mm
INLET	O.D. $\phi 3/8''$
OUTLET	O.D. $\phi 3/8''$

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-20 (-28) to 100 (37)	3000 (206.4)	700 (371)	2042 (140.8)
200 (93)	2906 (200)	800 (426)	1731 (119.1)
300 (148)	2800 (192.7)	900 (482)	1420 (97.7)
400 (204)	2630 (181)	1000 (537)	981 (67.5)
500 (260)	2470 (170)	1100 (593)	690 (47.4)
600 (315)	2264 (155.8)	1200 (648)	395 (27.2)

A	Sep.01, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F6-10-PSC-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

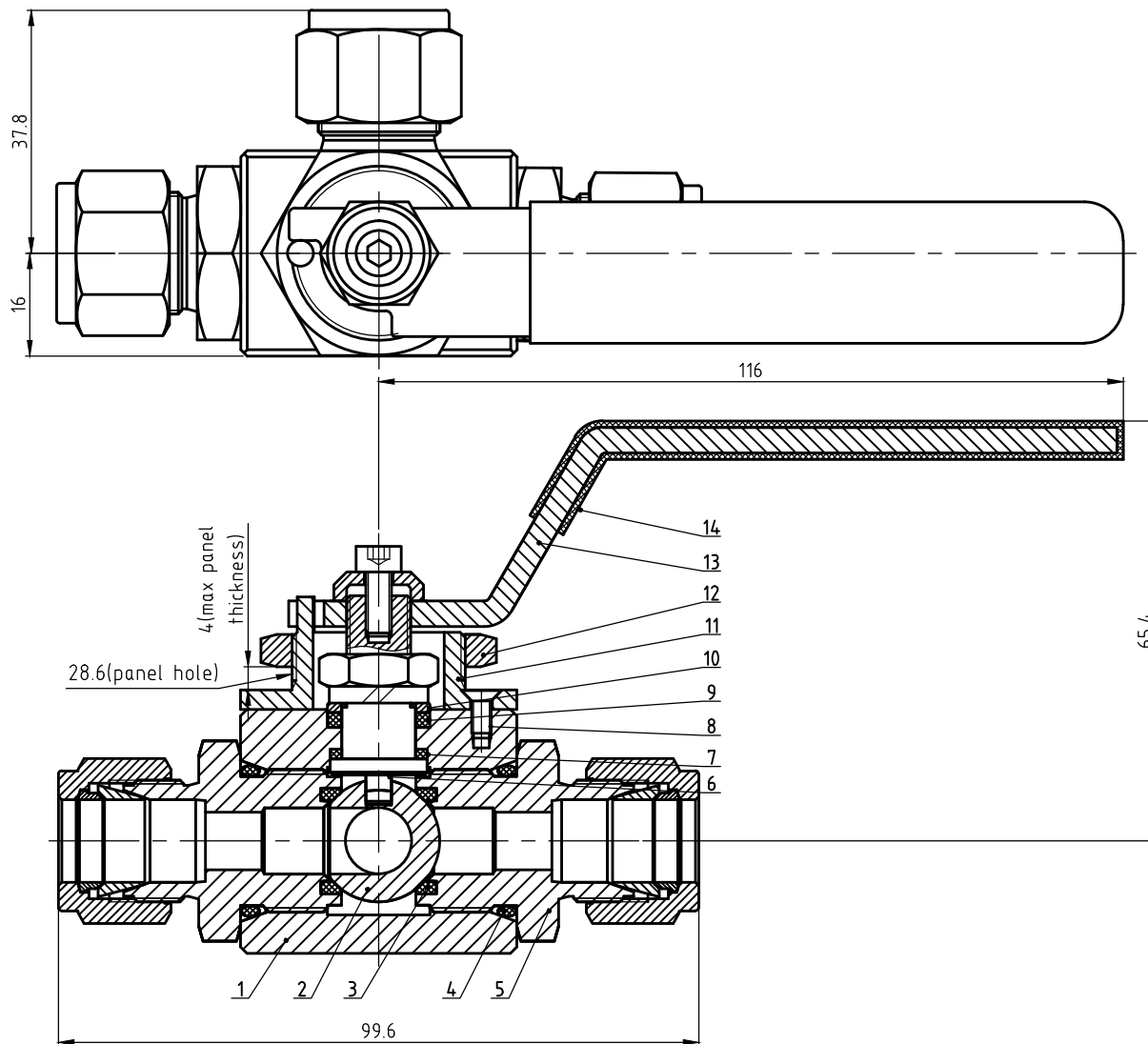


Component		Material Grade
1	Connect	N10276/ASTM B574
2	Disc Spring	Inconel 718
3	Body	N10276/ASTM B564
4	Ball	N10276+Ni coating
5	Seat	N10276+Ni coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	N10276/ASTM B574
11	Adaptor	304 S.S.
12	Bracket	304 S.S.
13	Pneumatic Actuators	

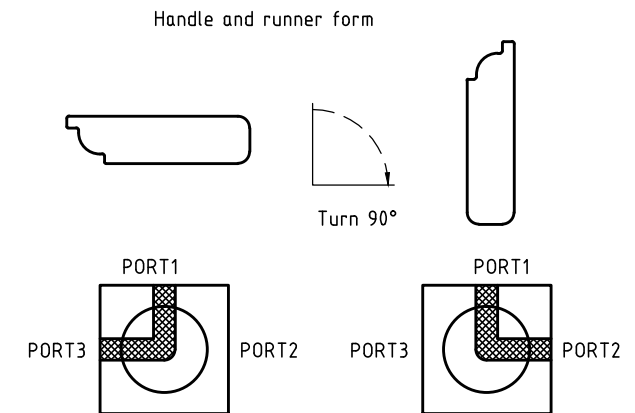
Technical Data:

Working Pressure	3000psi(206bar) @ 100°F(37℃)
Temperature Range	-20°F (-28℃) to 1200°F (648℃)
Orifice Size	10mm
INLET	O.D. $\phi 3/8''$
OUTLET	O.D. $\phi 3/8''$

A	Aug.15, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F6-10-PSC-A276		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A479
2	Ball	316.S.S/ASTM A479
3	Seat	PEEK
4	O Ring	FKM
5	Connect	316.S.S/ASTM A479
6	Stem	316.S.S/ASTM A479
7	Bearing	PTFE/ASTM D1710
8	Screw	304.S.S
9	Packing	PTFE/ASTM D1710
10	Gland	316.S.S/ASTM A479
11	Panel bracket	316.S.S/ASTM A479
12	Nut	304.S.S
13	Handle	304.S.S
14	Handle sleeve	PVC



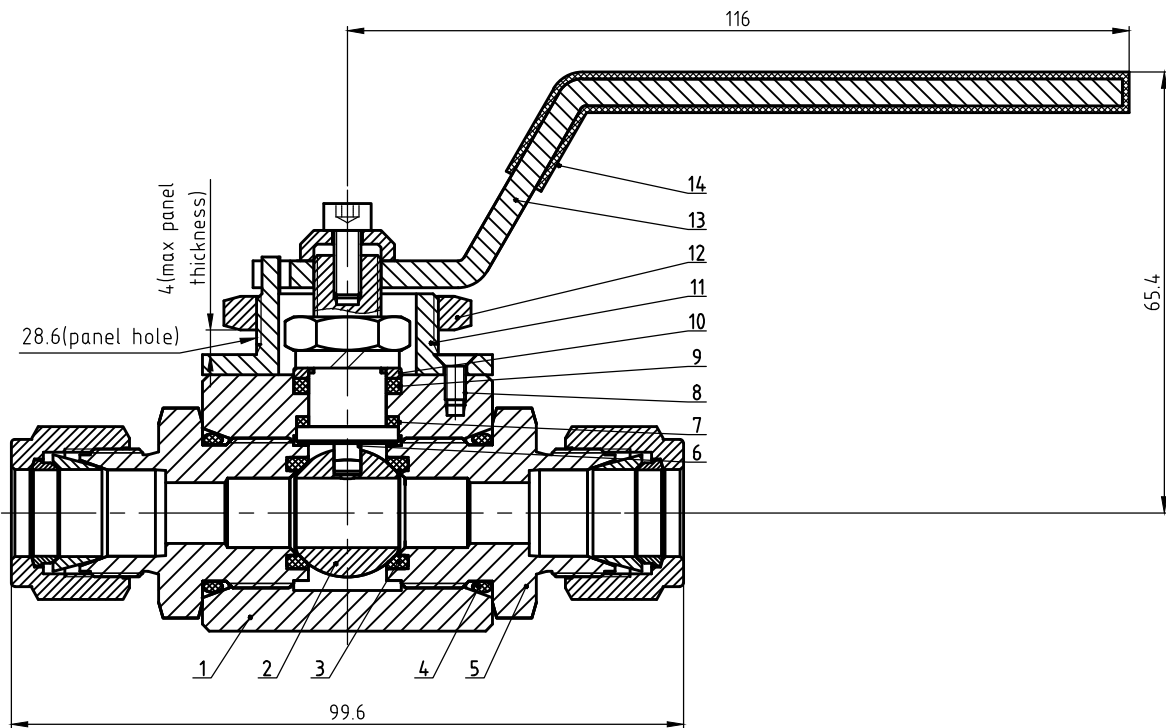
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. $\phi 1/2''$
Outlet Size	O.D. $\phi 1/2''$
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jul.18.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F8-P10-3H-316-PM		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A479
2	Ball	316.S.S/ASTM A479
3	Seat	PEEK
4	O Ring	FKM
5	Connect	316.S.S/ASTM A479
6	Stem	316.S.S/ASTM A479
7	Bearing	PTFE/ASTM D1710
8	Screw	304.S.S
9	Packing	PTFE/ASTM D1710
10	Gland	316.S.S/ASTM A479
11	Panel bracket	316.S.S/ASTM A479
12	Nut	304.S.S
13	Handle	304.S.S
14	Handle sleeve	PVC

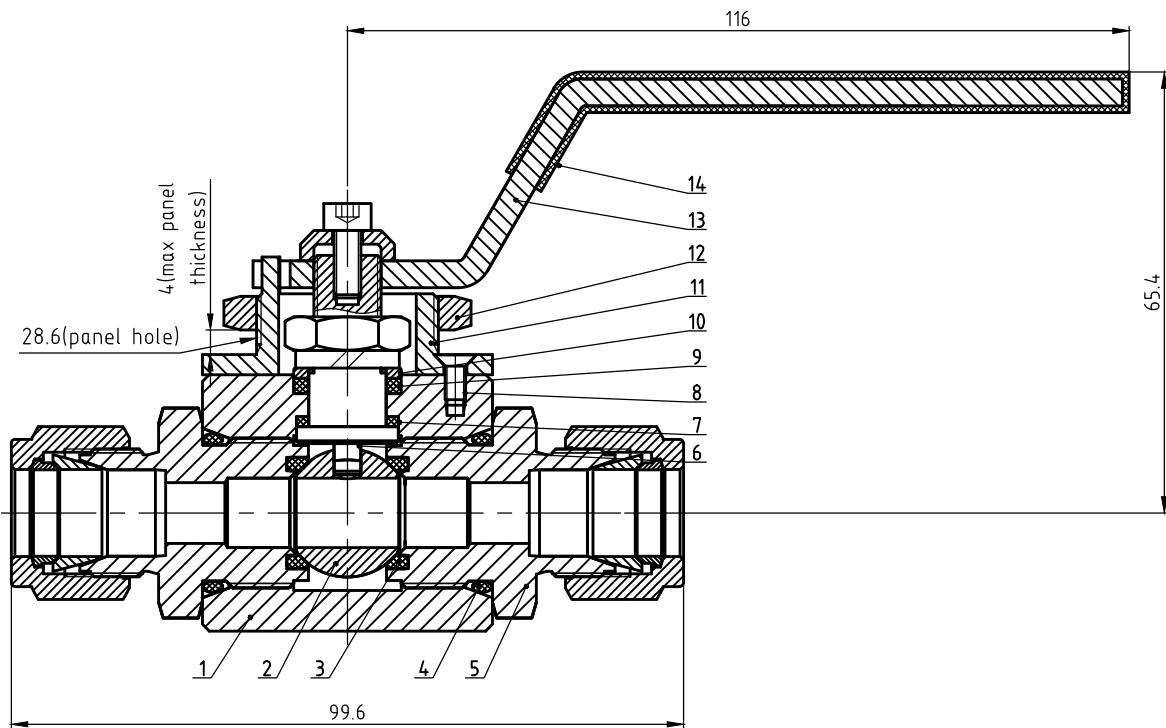
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. $\phi 1/2''$
Outlet Size	O.D. $\phi 1/2''$
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jul.18.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F8-P10-316-PM		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A479
2	Ball	316.S.S/ASTM A479
3	Seat	PEEK
4	O Ring	HNBR
5	Connect	316.S.S/ASTM A479
6	Stem	316.S.S/ASTM A479
7	Bearing	PTFE/ASTM D1710
8	Screw	304.S.S
9	Packing	PTFE/ASTM D1710
10	Gland	316.S.S/ASTM A479
11	Panel bracket	316.S.S/ASTM A479
12	Nut	304.S.S
13	Handle	304.S.S
14	Handle sleeve	PVC

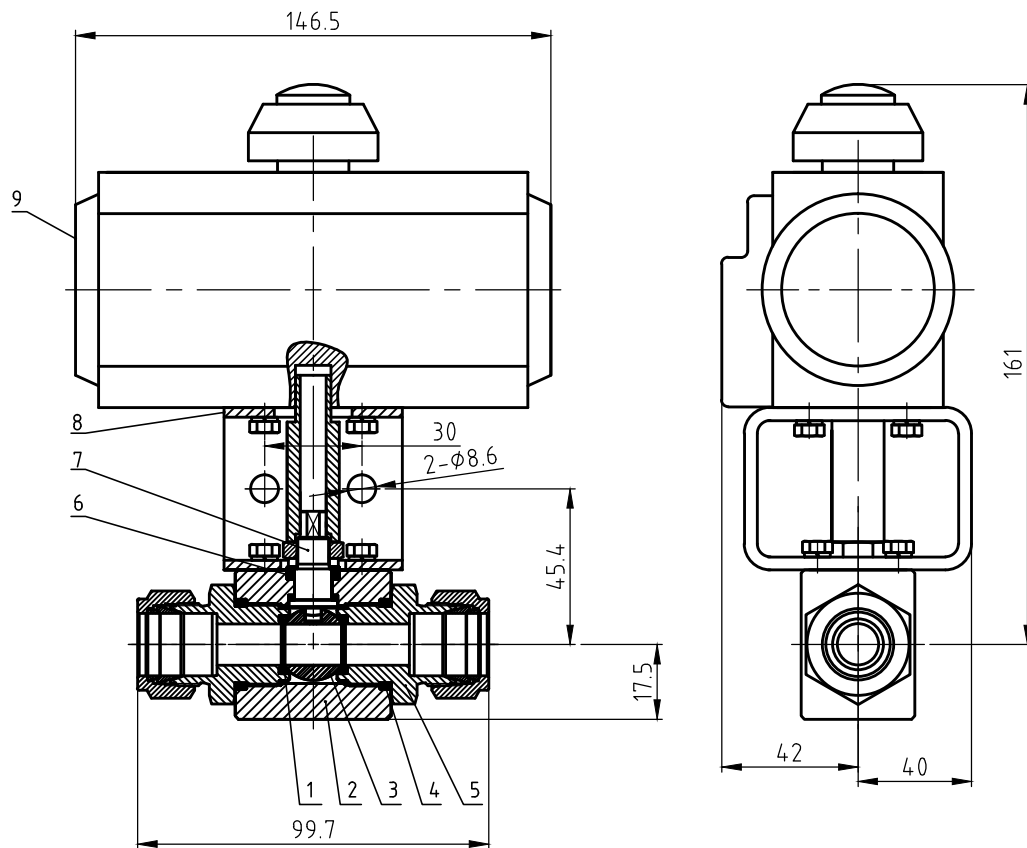
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. $\phi 1/2''$
Outlet Size	O.D. $\phi 1/2''$
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jul.18.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F8-P10-316-PM-HB		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PEEK
2	Body	N10276/ASTM B564
3	Ball	N10276/ASTM B574
4	O-ring	FKM
5	Connector	N10276/ASTM B574
6	Packing	PTFE/ASTM D1710
7	Stem	N10276/ASTM B574
8	Bracket	304 S.S.
9	Pneumatic Actuators	

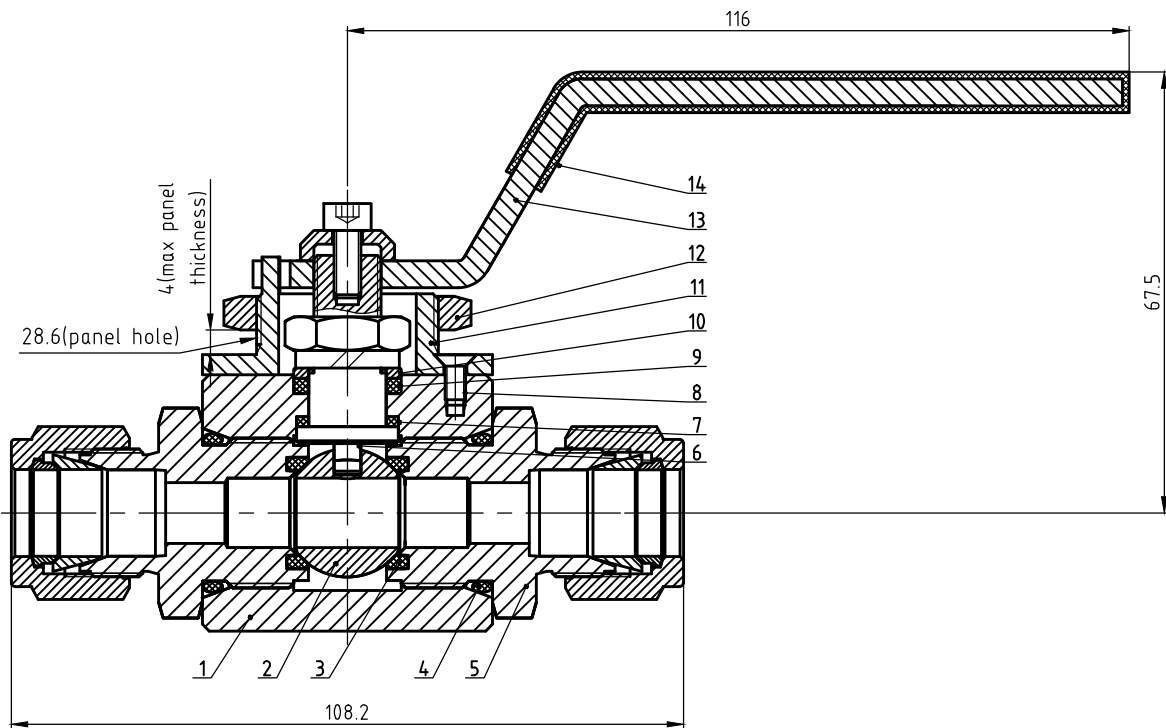
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.φ1/2"
Outlet Size	O.D.φ1/2"
Pneumatic actuator type	Spring Return
Drive air pressure	5-7bar

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Sep.01, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-F8-P10-PSC-A276		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A479
2	Ball	316.S.S/ASTM A479
3	Seat	PEEK
4	O Ring	HNBR
5	Connect	316.S.S/ASTM A479
6	Stem	316.S.S/ASTM A479
7	Bearing	PTFE/ASTM D1710
8	Screw	304.S.S
9	Packing	PTFE/ASTM D1710
10	Gland	316.S.S/ASTM A479
11	Panel bracket	316.S.S/ASTM A479
12	Nut	304.S.S
13	Handle	304.S.S
14	Handle sleeve	PVC

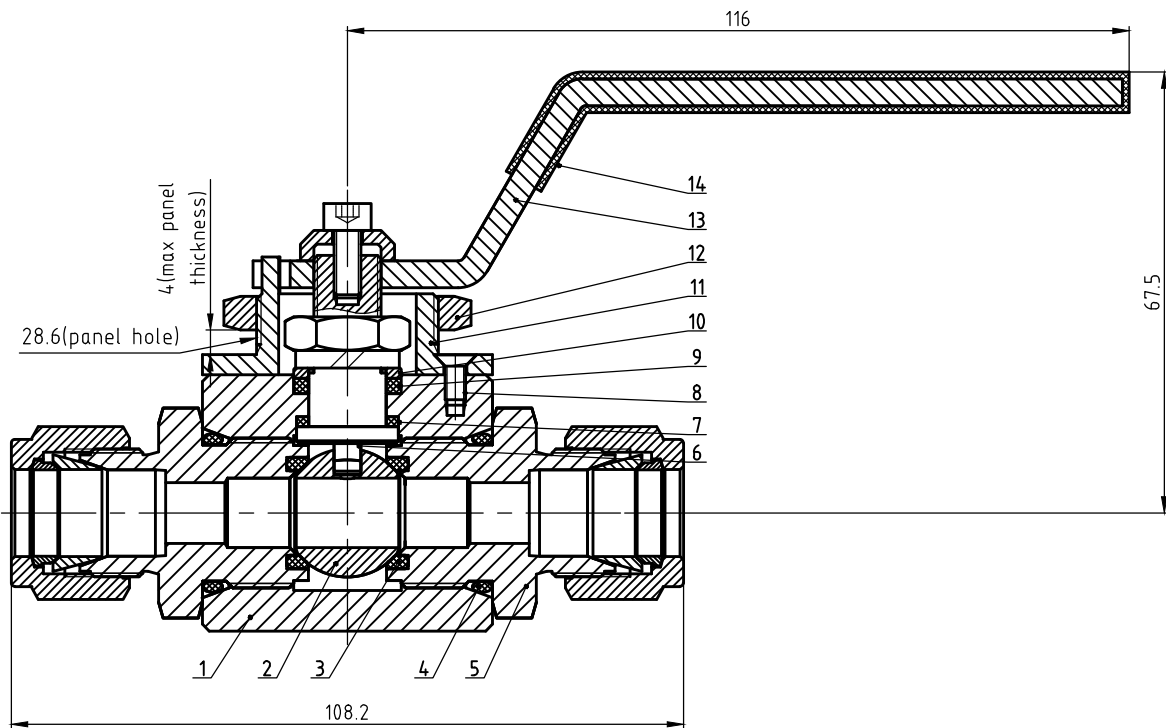
Technical Data:

Orifice Size	12.7mm
Inlet Size	O.D. ϕ 3/4"
Outlet Size	O.D. ϕ 3/4"
Cv	10.0

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jul.18.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F12-P13-316-PM-HB		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A479
2	Ball	316.S.S/ASTM A479
3	Seat	PFA
4	O Ring	HNBR
5	Connect	316.S.S/ASTM A479
6	Stem	316.S.S/ASTM A479
7	Bearing	PTFE/ASTM D1710
8	Screw	304.S.S
9	Packing	PTFE/ASTM D1710
10	Gland	316.S.S/ASTM A479
11	Panel bracket	316.S.S/ASTM A479
12	Nut	304.S.S
13	Handle	304.S.S
14	Handle sleeve	PVC

Technical Data:

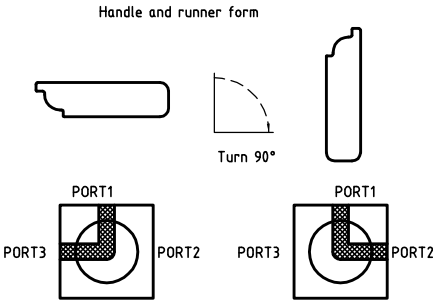
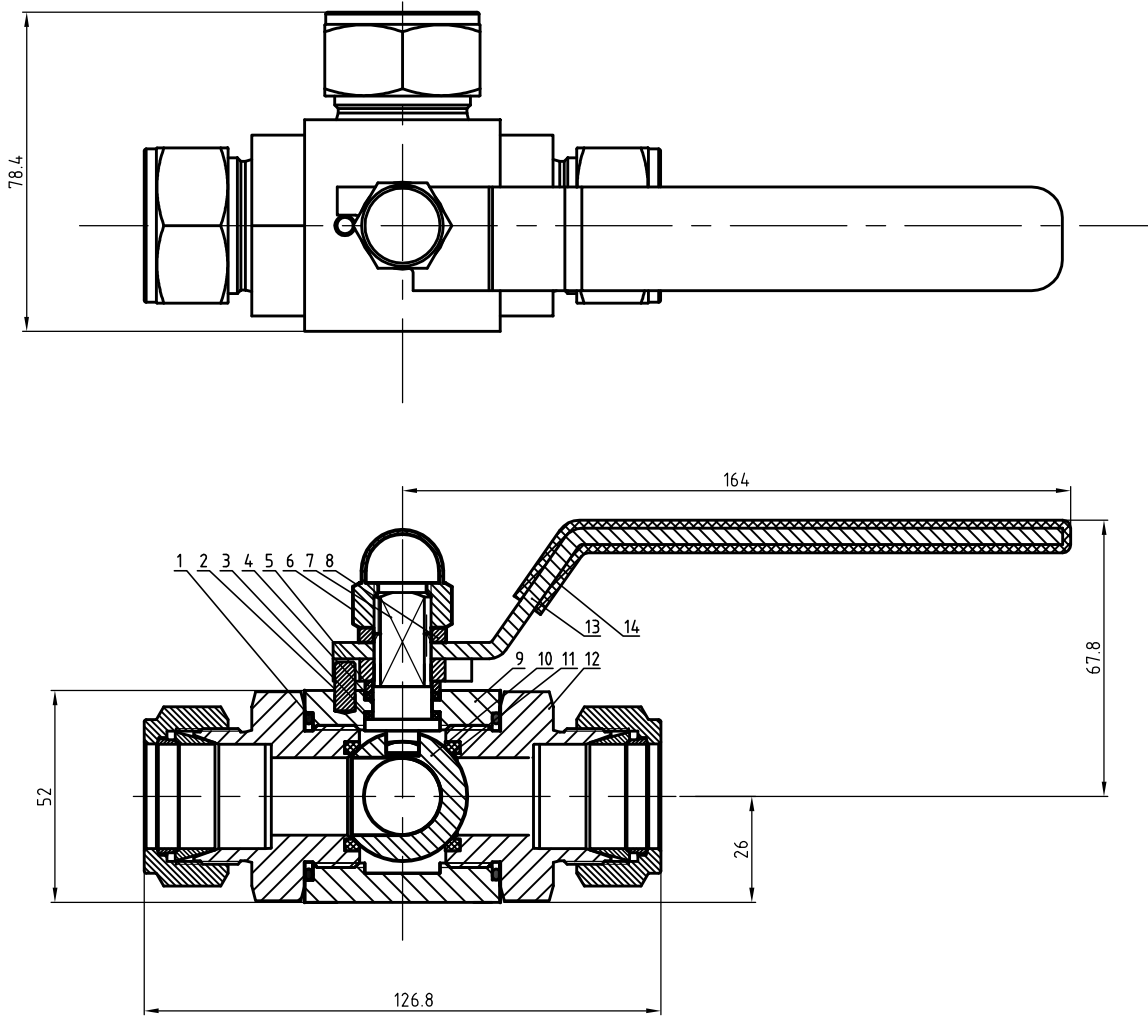
Orifice Size	12.7mm
Inlet Size	O.D.Ø3/4"
Outlet Size	O.D.Ø3/4"
Cv	10.0

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-67 (-55) to 100 (37)	1500 (103)		

A	Jul.25.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F12-P13-316-PM-HB-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

Component		Material Grade
1	O Ring	316.S.S/ASTM A479
2	Pin	316.S.S/ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	316.S.S/ASTM A479
8	Spring Washer	304.S.S
9	Body	316.S.S/ASTM A479
10	Ball	316.S.S/ASTM A479
11	Seat	PEEK
12	Connect	316.S.S/ASTM A479
13	Handle	304.S.S
14	Handle sleeve	PVC



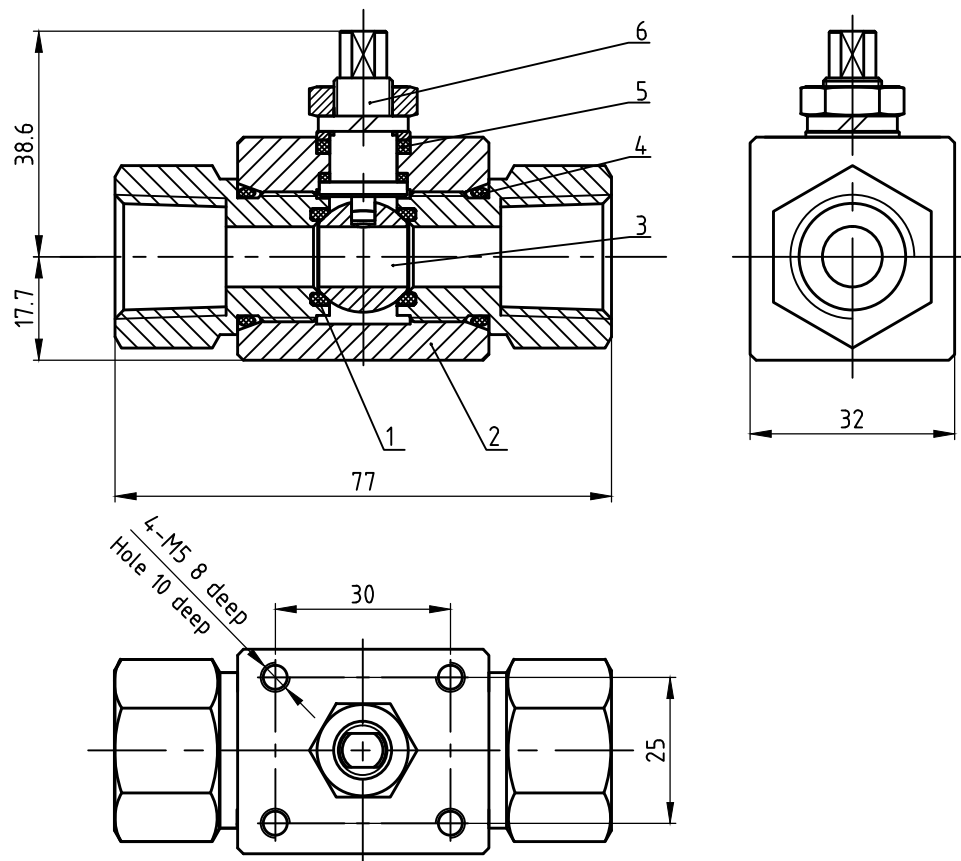
Technical Data:

Orifice Size	19.0mm
Inlet Size	O.D. ϕ 1"
Outlet Size	O.D. ϕ 1"

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Dec.27.2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-F16-P19-3H-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PFA
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	Silastic
5	Packing	PTFE/ASTM D1710
6	Stem	316 S.S./ASTM A479

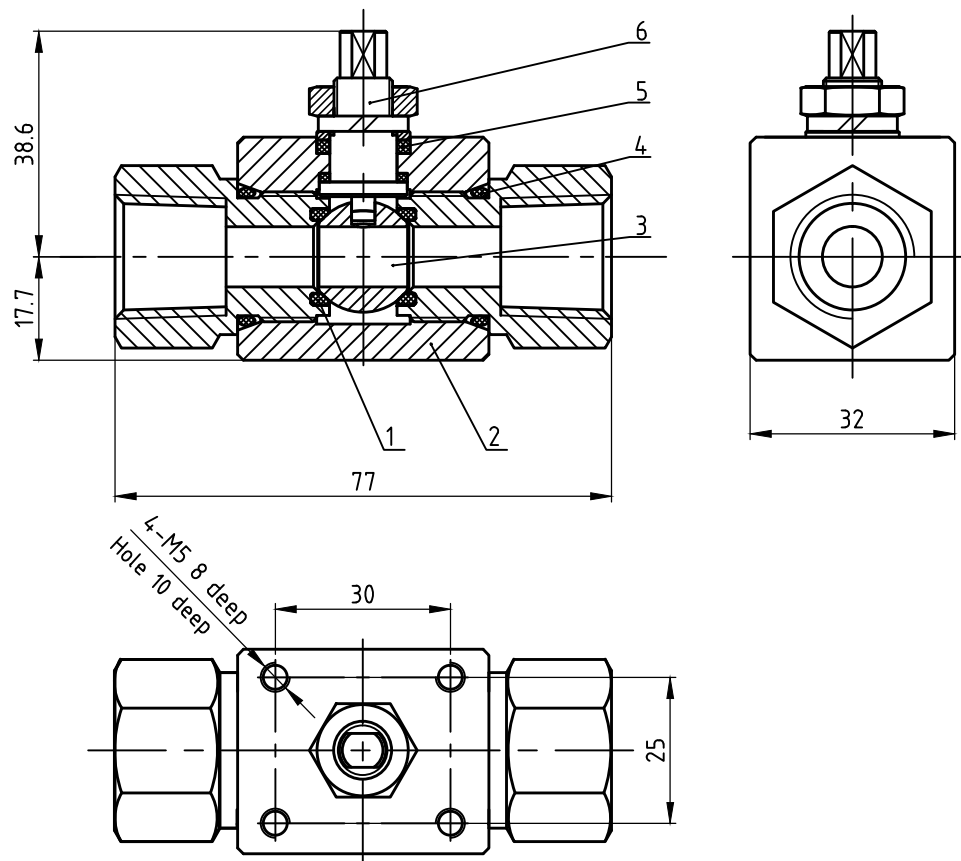
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/4 NPT (F)
Outlet Size	1/4 NPT (F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	1500 (103)		

A	Apr.08, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT4-T10-316-LT-FD601		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PFA
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	Silastic
5	Packing	PTFE/ASTM D1710
6	Stem	316 S.S./ASTM A479

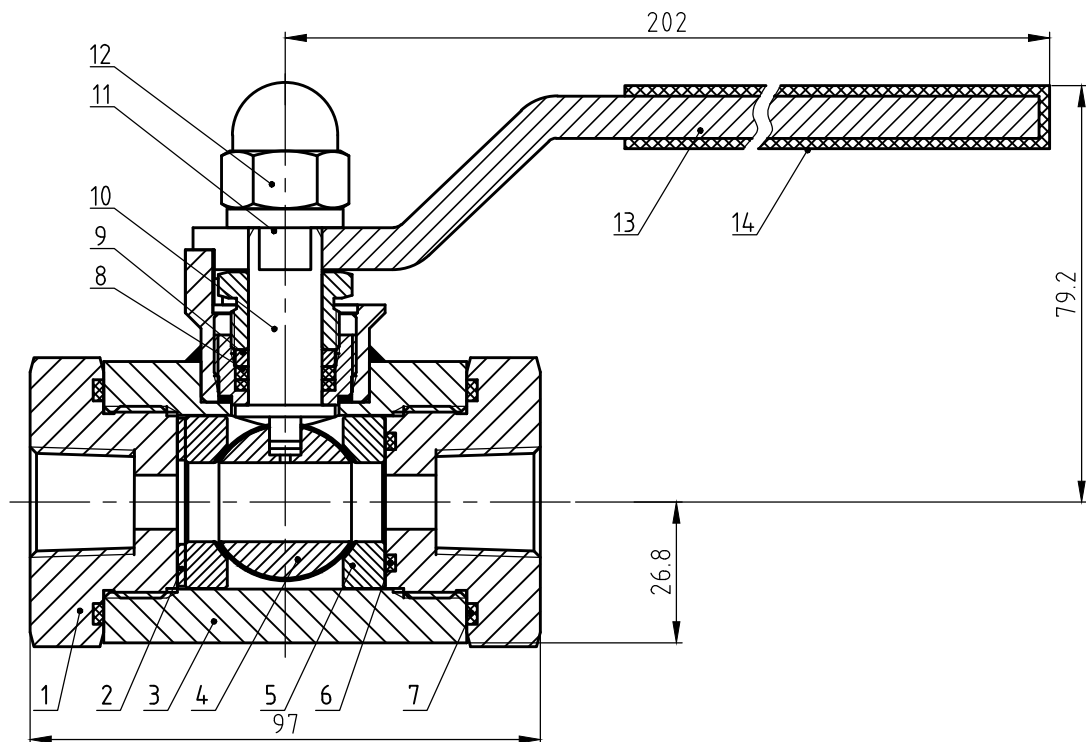
Technical Data:

Orifice Size	10.3mm
Inlet Size	3/8 NPT (F)
Outlet Size	3/8 NPT (F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	1500 (103)		

A	Apr.08, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT6-T10-316-LT-FD601		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A479
4	Ball	316 S.S.+HVOF coating
5	Seat	316 S.S.+HVOF coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Spring Washer	304 S.S.
12	Nut	304 S.S.
13	Handle	304 S.S.
14	Handle Sleeve	PVC

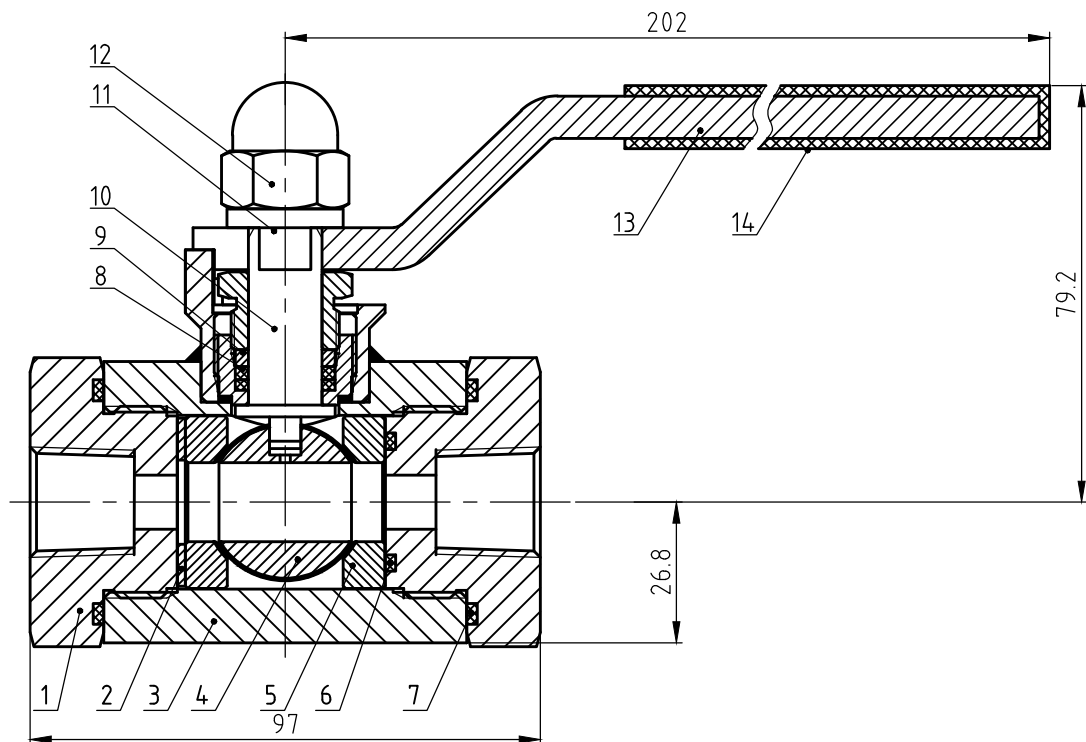
Technical Data:

Orifice Size	10.3mm
INLET	1/2NPT(F)
OUTLET	1/2NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	3000 (206.4)	700 (371)	2042 (140.8)
200 (93)	2906 (200)	800 (426)	1731 (119.1)
300 (148)	2800 (192.7)	900 (482)	1420 (97.7)
400 (204)	2630 (181)	1000 (537)	981 (67.5)
500 (260)	2470 (170)	1100 (593)	690 (47.4)
600 (315)	2264 (155.8)	1200 (648)	395 (27.2)

A	Dec.01, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT8-10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A479
4	Ball	316 S.S.+HVOF coating
5	Seat	316 S.S.+HVOF coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Spring Washer	304 S.S.
12	Nut	304 S.S.
13	Handle	304 S.S.
14	Handle Sleeve	PVC

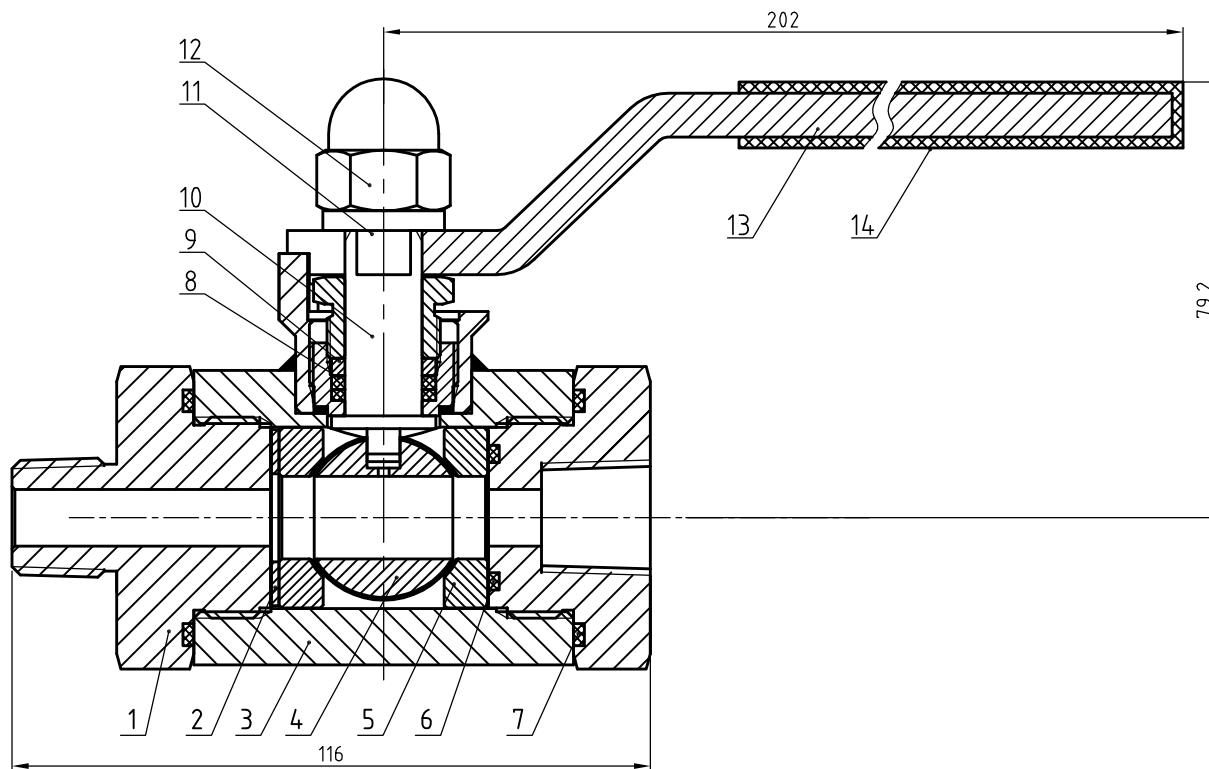
Technical Data:

Orifice Size	10.3mm
INLET	1/2NPT(F)
OUTLET	1/2NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	3000 (206.4)	700 (371)	2042 (140.8)
200 (93)	2906 (200)	800 (426)	1731 (119.1)
300 (148)	2800 (192.7)	900 (482)	1420 (97.7)
400 (204)	2630 (181)	1000 (537)	981 (67.5)
500 (260)	2470 (170)	1100 (593)	690 (47.4)
600 (315)	2264 (155.8)	1200 (648)	395 (27.2)

A	Dec.01, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-FNPT8-10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A479
4	Ball	316 S.S.+HVOF coating
5	Seat	316 S.S.+HVOF coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Spring Washer	304 S.S.
12	Nut	304 S.S.
13	Handle	304 S.S.
14	Handle Sleeve	PVC

Technical Data:

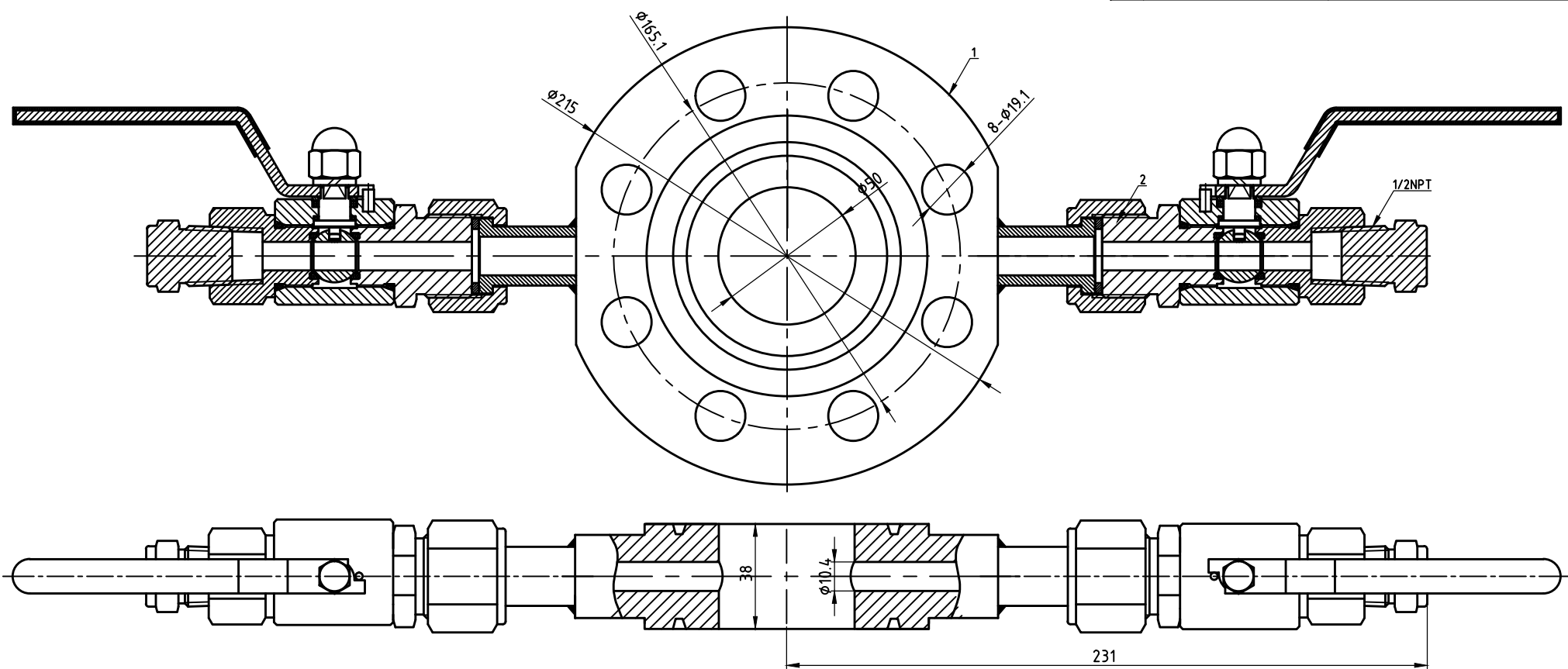
Orifice Size	10.3mm
INLET	1/2NPT
OUTLET	1/2NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	3000 (206.4)	700 (371)	2042 (140.8)
200 (93)	2906 (200)	800 (426)	1731 (119.1)
300 (148)	2800 (192.7)	900 (482)	1420 (97.7)
400 (204)	2630 (181)	1000 (537)	981 (67.5)
500 (260)	2470 (170)	1100 (593)	690 (47.4)
600 (315)	2264 (155.8)	1200 (648)	395 (27.2)

A	Apr.03.2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-NPT8-FNPT8-10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

No.	Component	Material Grade
1	Flange	316S.S/ASTM A182
2	Ball Valve	316S.S/ASTM A479

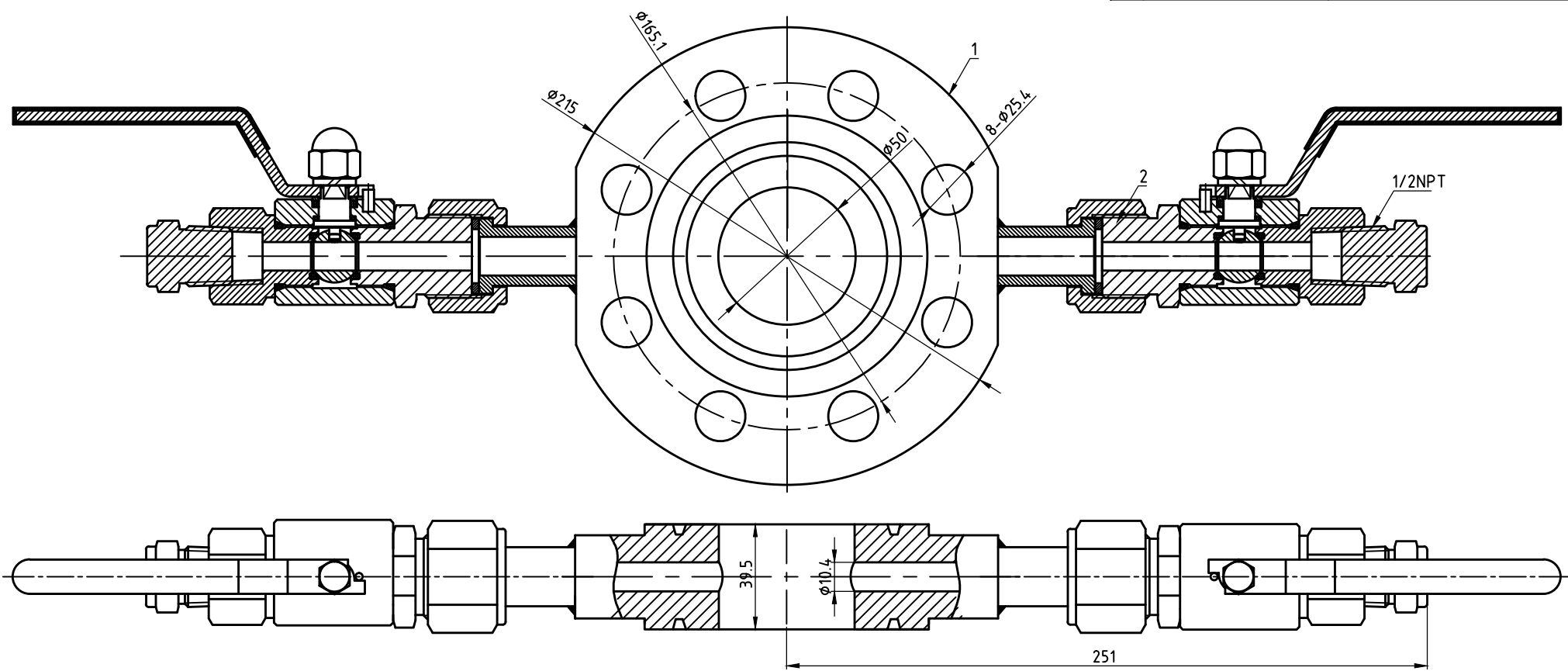


Technical Data:

Flange Size	ASME B16.5 2 Class600 RTJ

A	Sep.28,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Flushing Ring		
		Model	BV4-RTJ32600-HJC-FNPT8-316-FGK01		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

No.	Component	Material Grade
1	Flange	316S.S/ASTM A182
2	Ball Valve	316S.S/ASTM A479

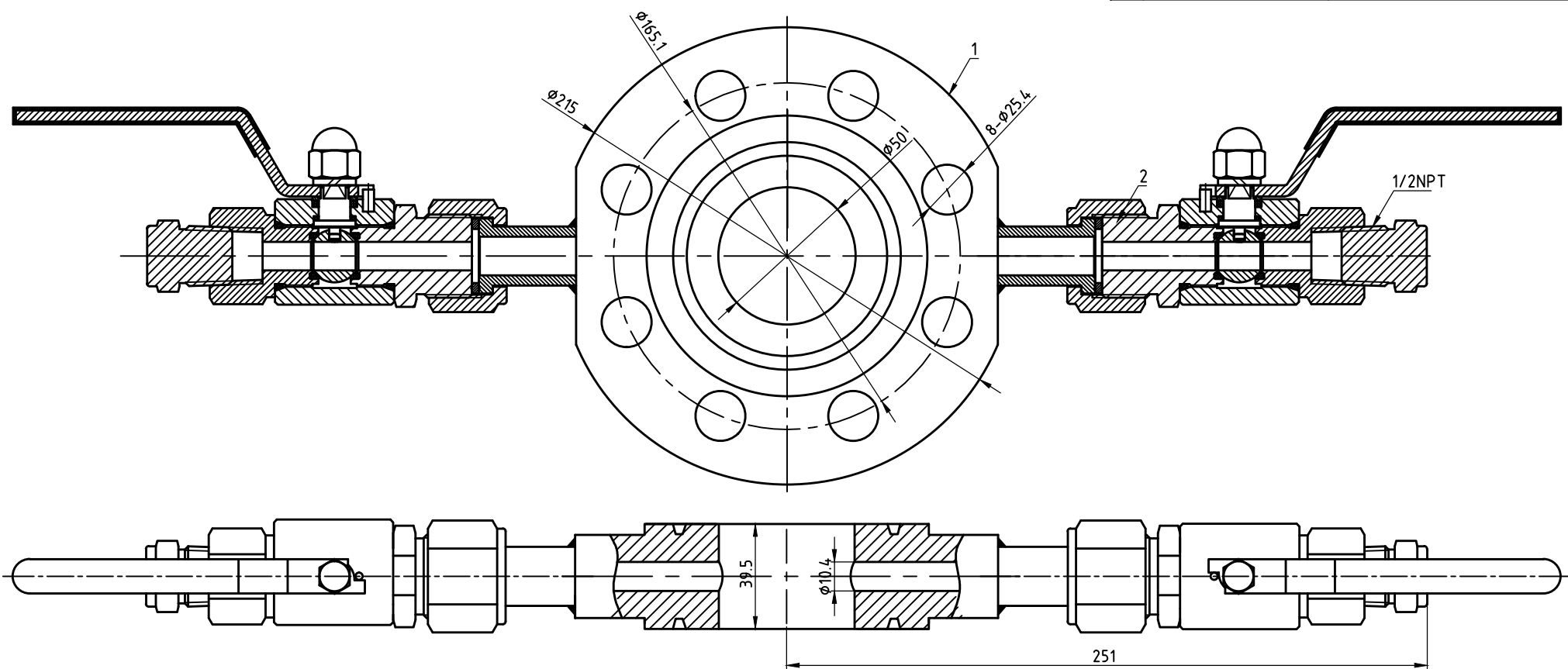


Technical Data:

Flange Size	ASME B16.5 2 Class900 RTJ

A	Sep.28,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Flushing Ring		
		Model	BV4-RTJ32900-HJC-FNPT8-316-FGK01		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

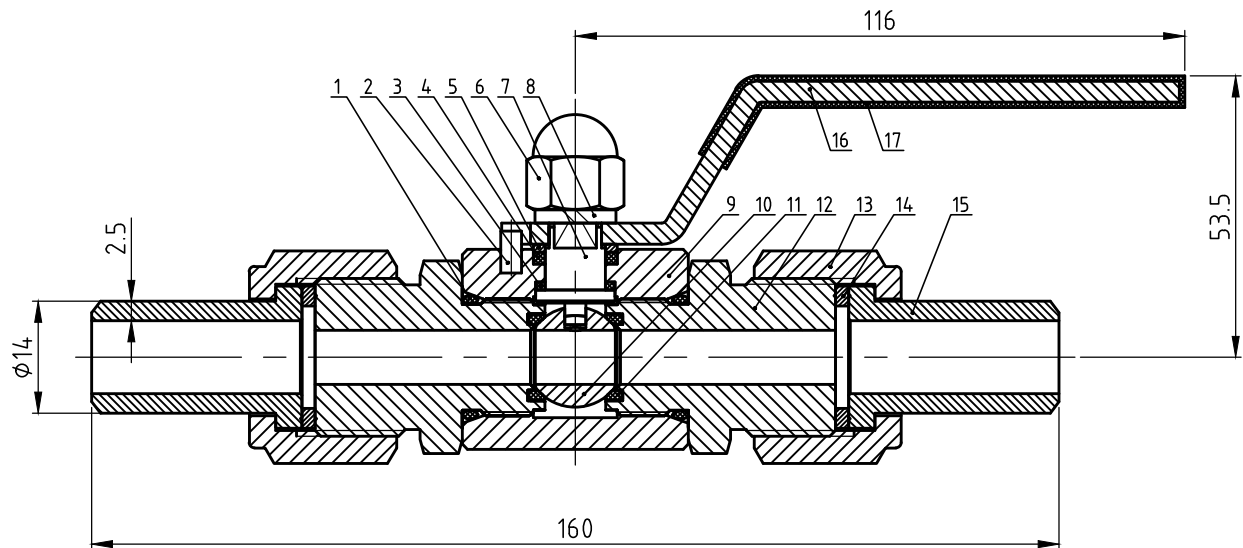
No.	Component	Material Grade
1	Flange	316S.S/ASTM A182
2	Ball Valve	316S.S/ASTM A479



Technical Data:

Flange Size	ASME B16.5 2 Class1500 RTJ

A	Sep.28,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Flushing Ring		
		Model	BV4-RTJ321500-HJC-FNPT8-316-FGK01		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	316 .S.S/ASTM A479
2	Pin	316 .S.S/ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 .S.S/ASTM A479
6	Nut	304 .S.S
7	Stem	316 .S.S/ASTM A479
8	Spring Washer	304 .S.S
9	Body	316 .S.S/ASTM A479
10	Ball	316 .S.S/ASTM A479
11	Seat	PEEK
12	Connect	316 .S.S/ASTM A479
13	Nut	316 .S.S/ASTM A479
14	Seal gasket	C11000
15	Short	316 .S.S/ASTM A479
16	Handle	304 .S.S
17	Handle sleeve	PVC

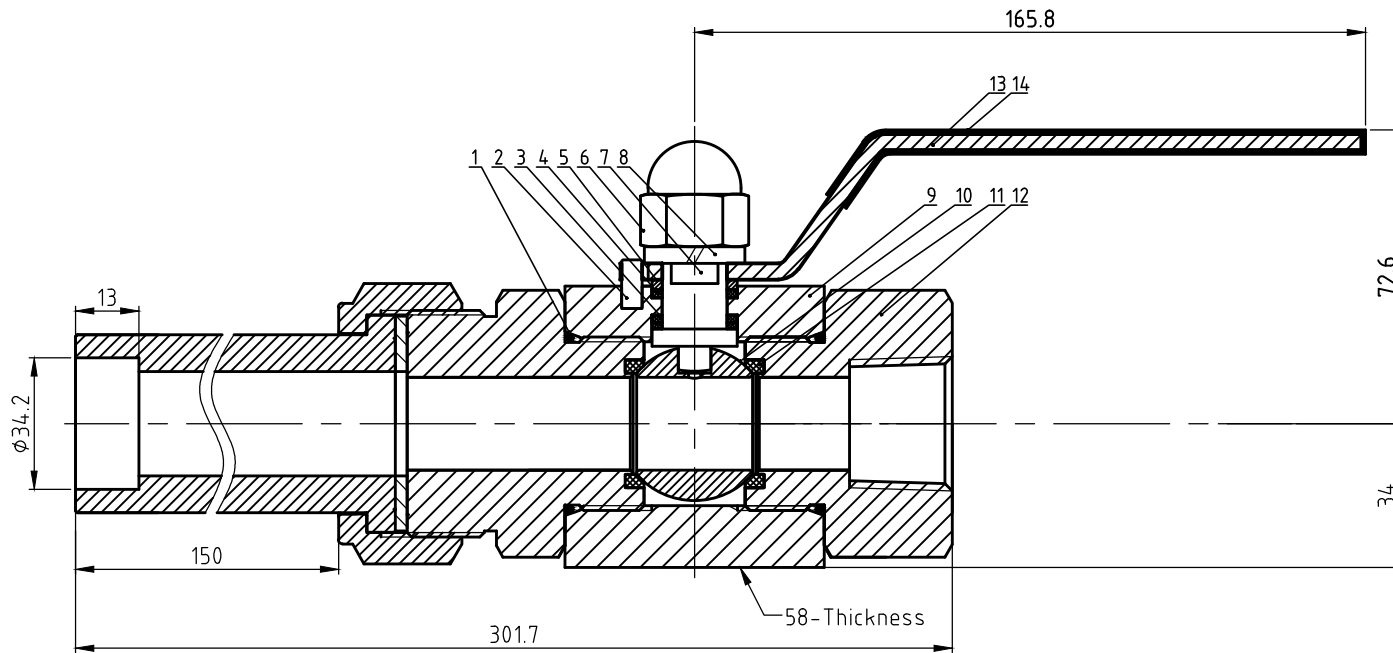
Technical Data:

Orifice Size	10.3mm
INLET	14mm Tube Butt Weld
OUTLET	14mm Tube Butt Weld

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-49 (-45) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Mar.31.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-UGM14-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	316.S.S/ASTM A479
2	Pin	316.S.S/ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	316.S.S/ASTM A479
8	Spring Washer	304.S.S
9	Body	316.S.S/ASTM A479
10	Ball	316.S.S/ASTM A479
11	Seat	PEEK
12	Connect	316.S.S/ASTM A479
13	Handle	304.S.S
14	Handle sleeve	PVC

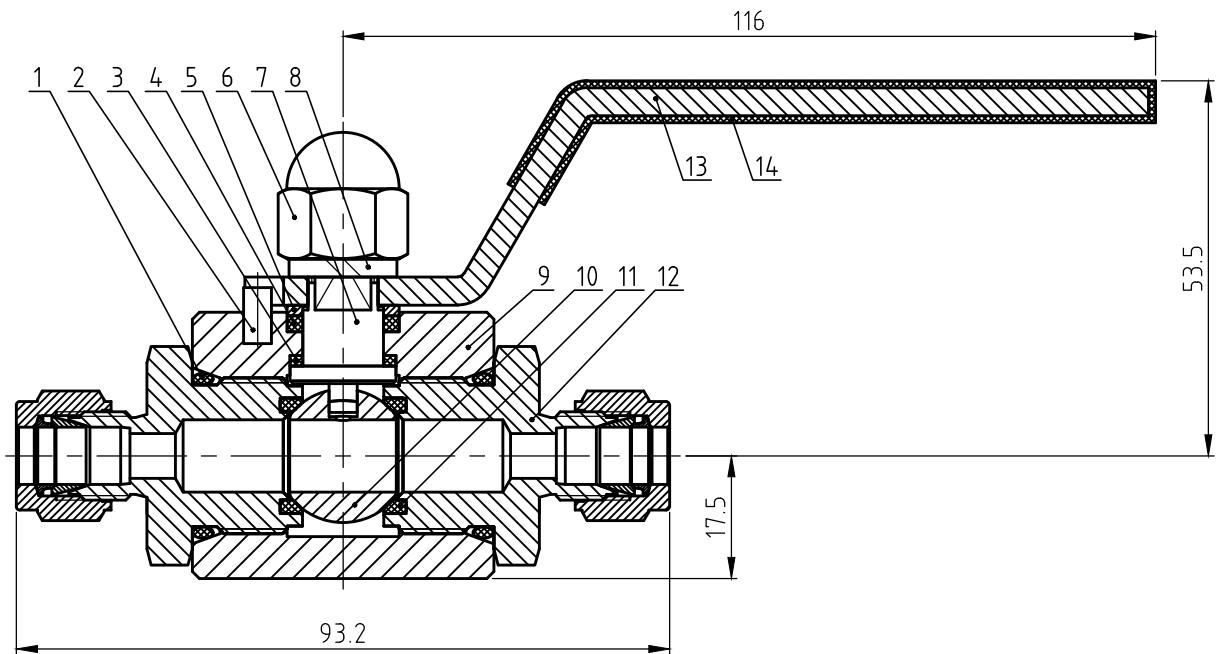
Technical Data:

Orifice Size	25mm
Inlet Size	1 Pipe Socket Weld
Outlet Size	1 NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jan.13, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-UGPSW16-FNPT16-P25-316-L150		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	FKM
2	Pin	304.S.S
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	N04400/ASTM B164
8	Spring Washer	304.S.S
9	Body	N04400/ASTM B564
10	Ball	N04400/ASTM B164
11	Seat	PEEK
12	Connect	N04400/ASTM B164
13	Handle	304.S.S
14	Handle sleeve	PVC

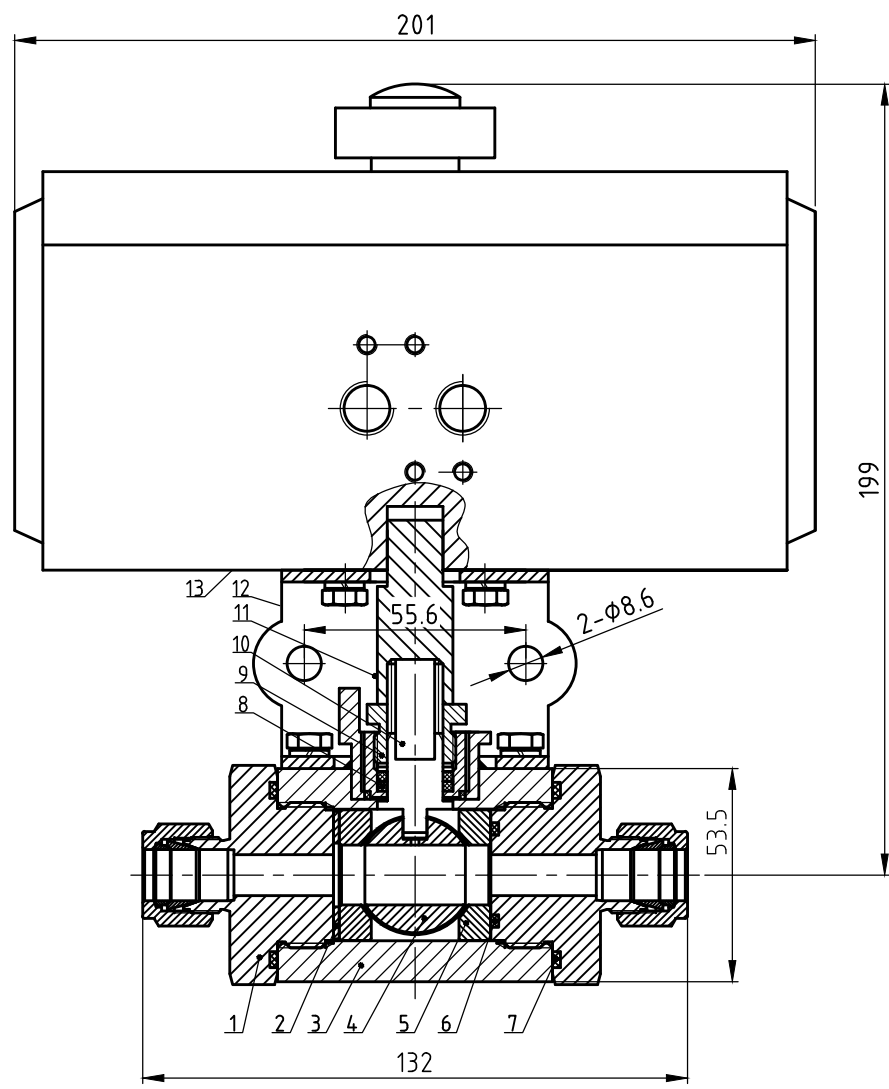
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.ø8
Outlet Size	O.D.ø8

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Nov.23.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M8-P10-A400		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	N10276/ASTM B574
2	Disc Spring	Inconel 718
3	Body	N10276/ASTM B564
4	Ball	N10276+Ni coating
5	Seat	N10276+Ni coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	N10276/ASTM B574
11	Adaptor	304 S.S.
12	Bracket	304 S.S.
13	Pneumatic Actuators	

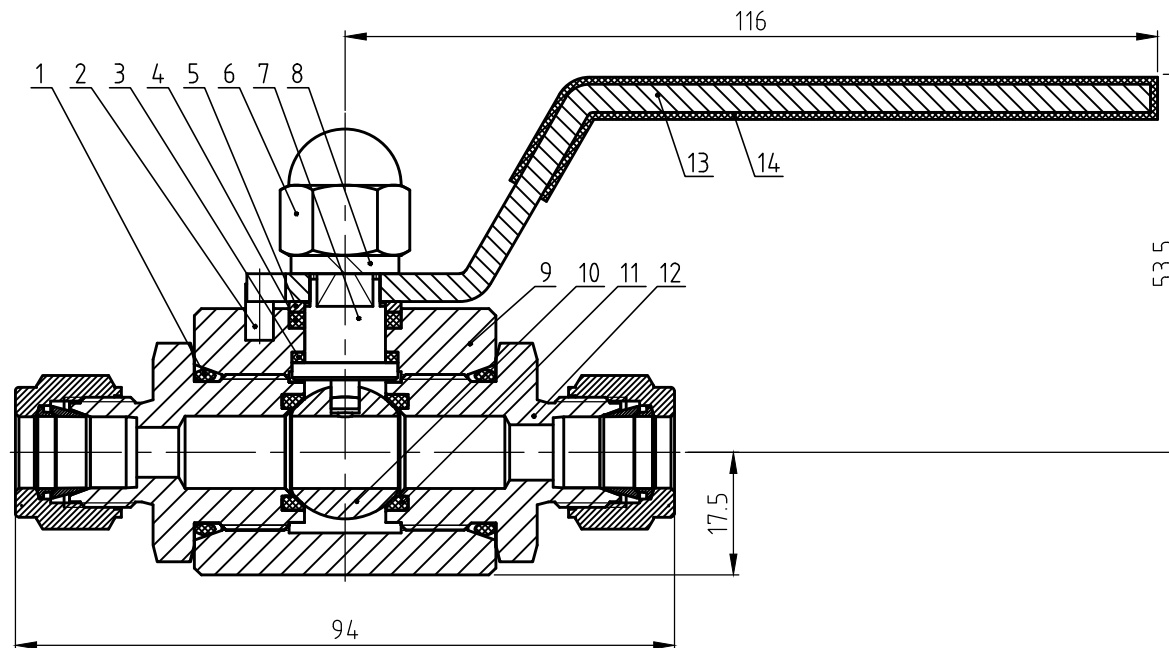
Technical Data:

Working Pressure	3000psi(206bar) @ 100°F(37°C)
Temperature Range	-20°F (-28°C) to 1200°F (648°C)
Orifice Size	10mm
INLET	O.D. φ10
OUTLET	O.D. φ10
Drive pressure	0.5-0.8MPa
Air source interface	G1/4 (F)
Actuators Type	Double Action

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-20 (-28) to 100 (37)	3000 (206)	700 (371)	2042 (140)
200 (93)	2906 (200)	800 (426)	1731 (119)
300 (148)	2800 (192)	900 (482)	1420 (97.7)
400 (204)	2630 (181)	1000 (537)	981 (67.5)
500 (260)	2470 (170)	1100 (593)	690 (47.4)
600 (315)	2264 (155)	1200 (648)	395 (27.2)

A	Aug.29, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M10-10-PD-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	FKM
2	Pin	304.S.S
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	N04400/ASTM B164
8	Spring Washer	304.S.S
9	Body	N04400/ASTM B564
10	Ball	N04400/ASTM B164
11	Seat	PEEK
12	Connect	N04400/ASTM B164
13	Handle	304.S.S
14	Handle sleeve	PVC

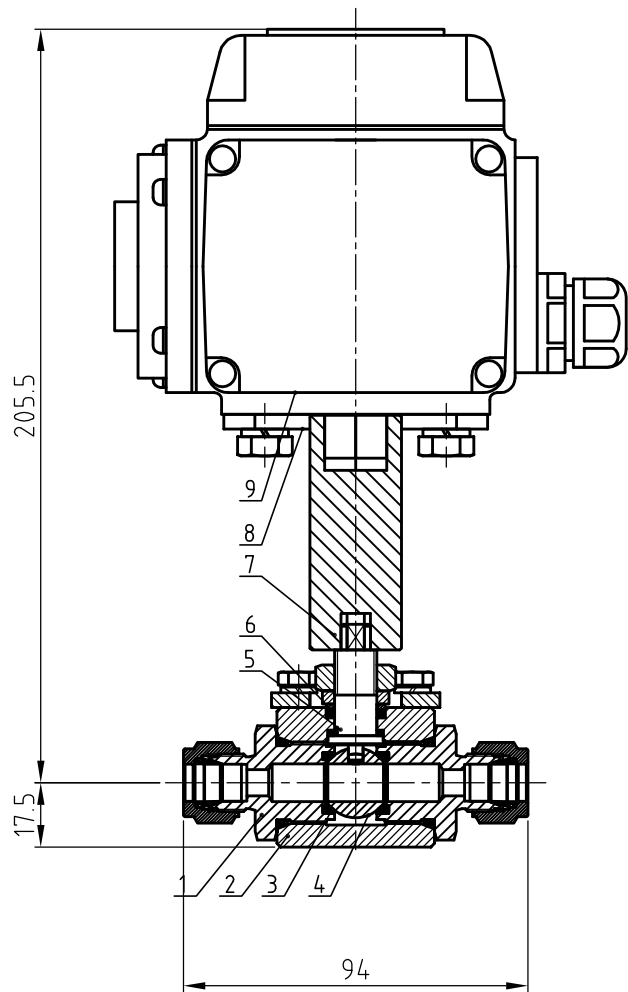
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.Ø10
Outlet Size	O.D.Ø10

Pressure vs. Temperature Ratings:

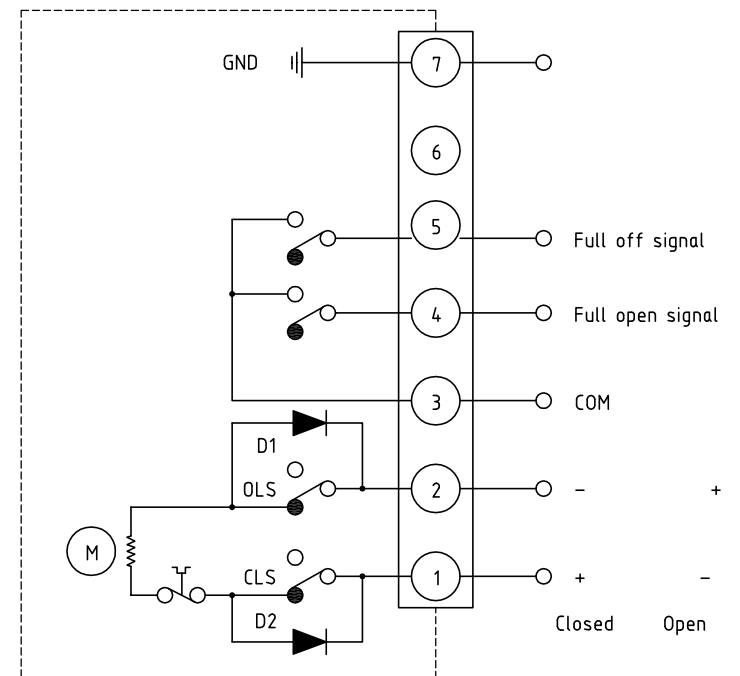
Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Nov.23.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M10-P10-A400		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Connector	316 S.S./ASTM A479
2	Body	316 S.S./ASTM A182
3	Seat	PEEK
4	Ball	316 S.S./ASTM A479
5	Stem	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Stem Adapter	304 S.S.
8	Fixed Plate	304 S.S.
9	Electric Actuator	

Control circuit diagram



Working voltage: DC24V
Protection level: IP67
On/off time:20S

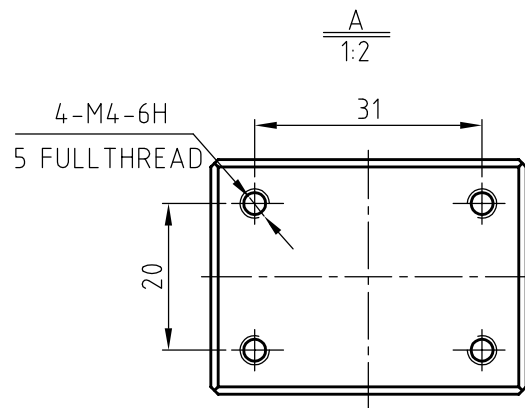
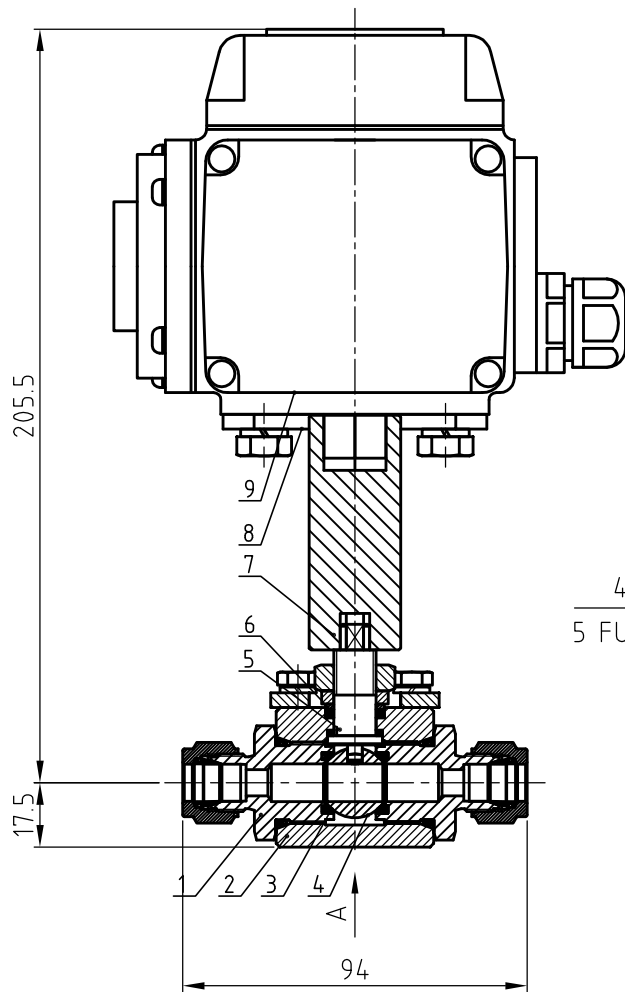
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. ϕ 10
Outlet Size	O.D. ϕ 10
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

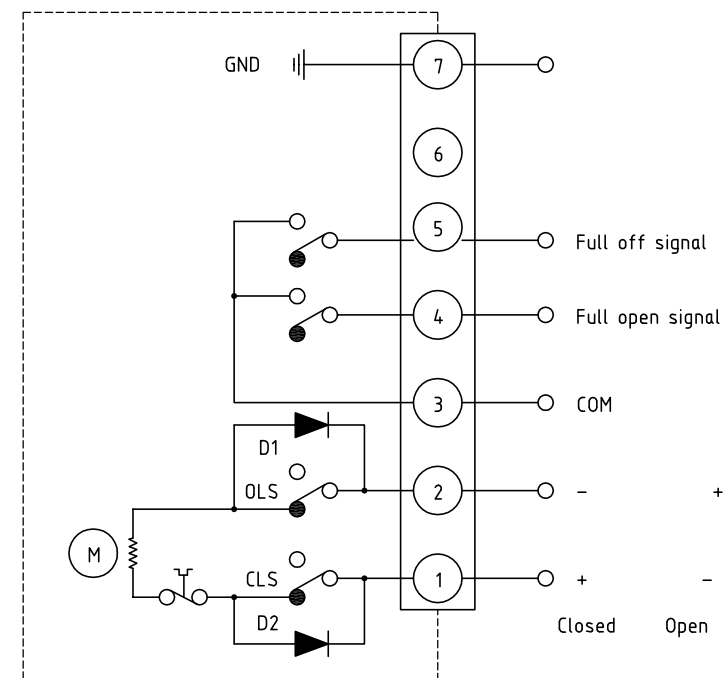
A	Apr.03, 2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-M10-P10-E-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 2		



Working voltage: DC24V
Protection level: IP67
On/off time:20S

No.	Component	Material Grade
1	Connector	316 S.S./ASTM A479
2	Body	316 S.S./ASTM A182
3	Seat	PEEK
4	Ball	316 S.S./ASTM A479
5	Stem	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Stem Adapter	304 S.S.
8	Fixed Plate	304 S.S.
9	Electric Actuator	

Control circuit diagram



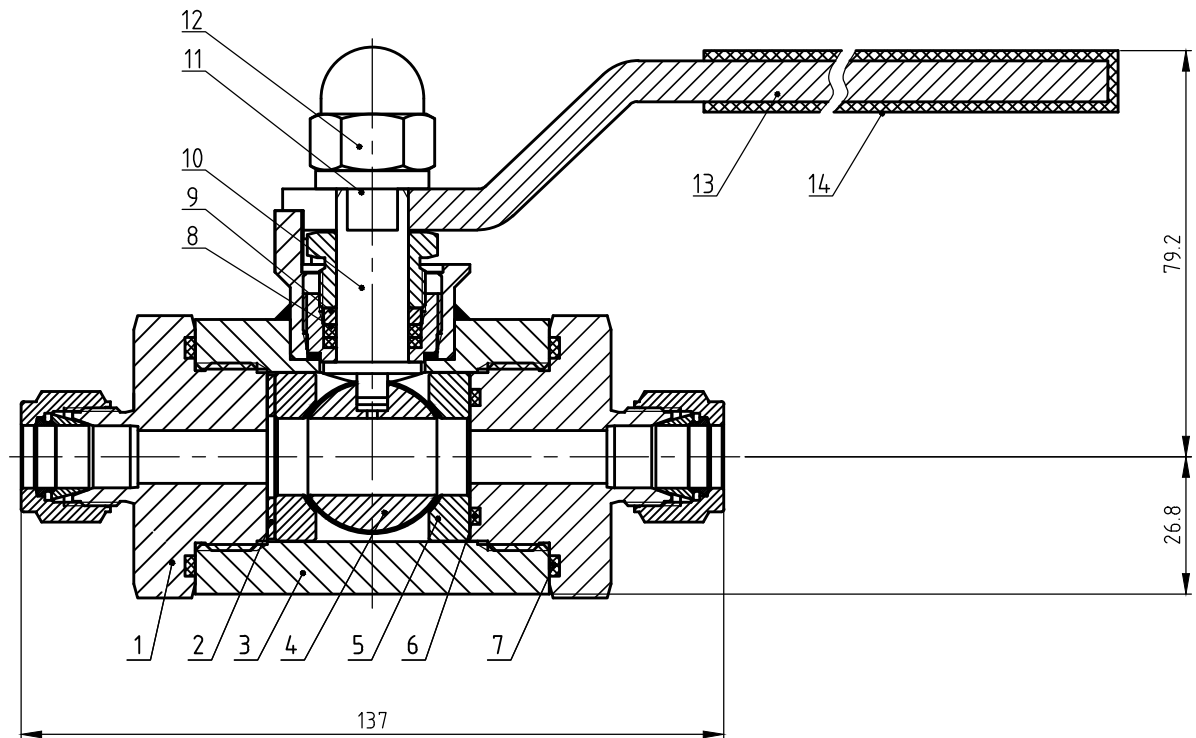
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. $\phi 10$
Outlet Size	O.D. $\phi 10$
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Feb.12, 2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-M10-P10-E-316-HBB01		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 2		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A479
4	Ball	316 S.S.+Ni coating
5	Seat	316 S.S.+Ni coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Spring Washer	304 S.S.
12	Nut	304 S.S.
13	Handle	304 S.S.
14	Handle Sleeve	PVC

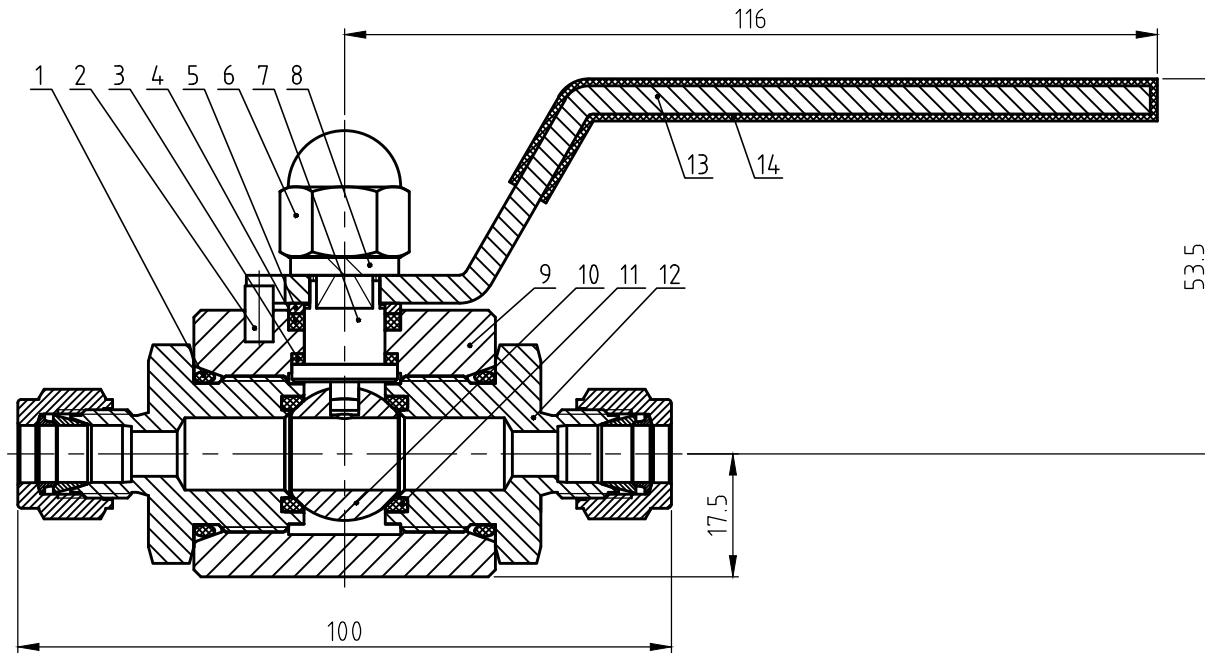
Technical Data:

Orifice Size	10.3mm
Inlet	O.D. Ø12
Outlet	O.D. Ø12
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	1000 (68.9)	700 (371)	1000 (68.9)
200 (93)	1000 (68.9)	800 (426)	1000 (68.9)
300 (148)	1000 (68.9)	850 (454)	1000 (68.9)
400 (204)	1000 (68.9)		
500 (260)	1000 (68.9)		
600 (315)	1000 (68.9)		

A	Aug.22, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M12-10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	FKM
2	Pin	304.S.S
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	N04400/ASTM B164
8	Spring Washer	304.S.S
9	Body	N04400/ASTM B564
10	Ball	N04400/ASTM B164
11	Seat	PEEK
12	Connect	N04400/ASTM B164
13	Handle	304.S.S
14	Handle sleeve	PVC

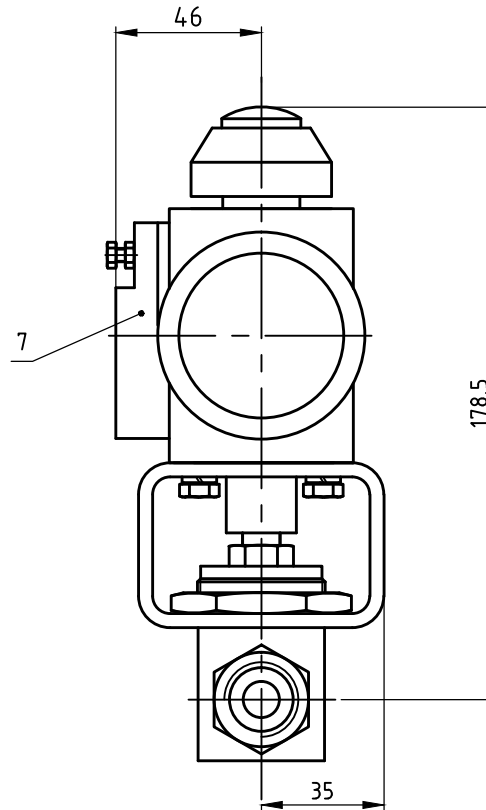
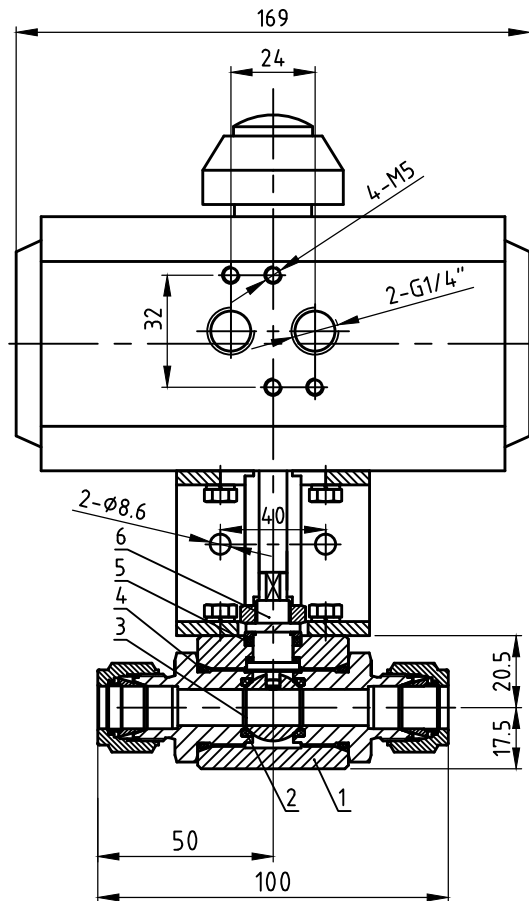
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.Ø12
Outlet Size	O.D.Ø12

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Nov.23.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M12-P10-A400		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Body	316 S.S./ASTM A479
2	Seat	PEEK
3	Ball	316 S.S./ASTM A479
4	O-ring	FKM
5	Packing	PTFE/ASTM D1710
6	Stem	316 S.S./ASTM A479
7	Pneumatic Actuators	

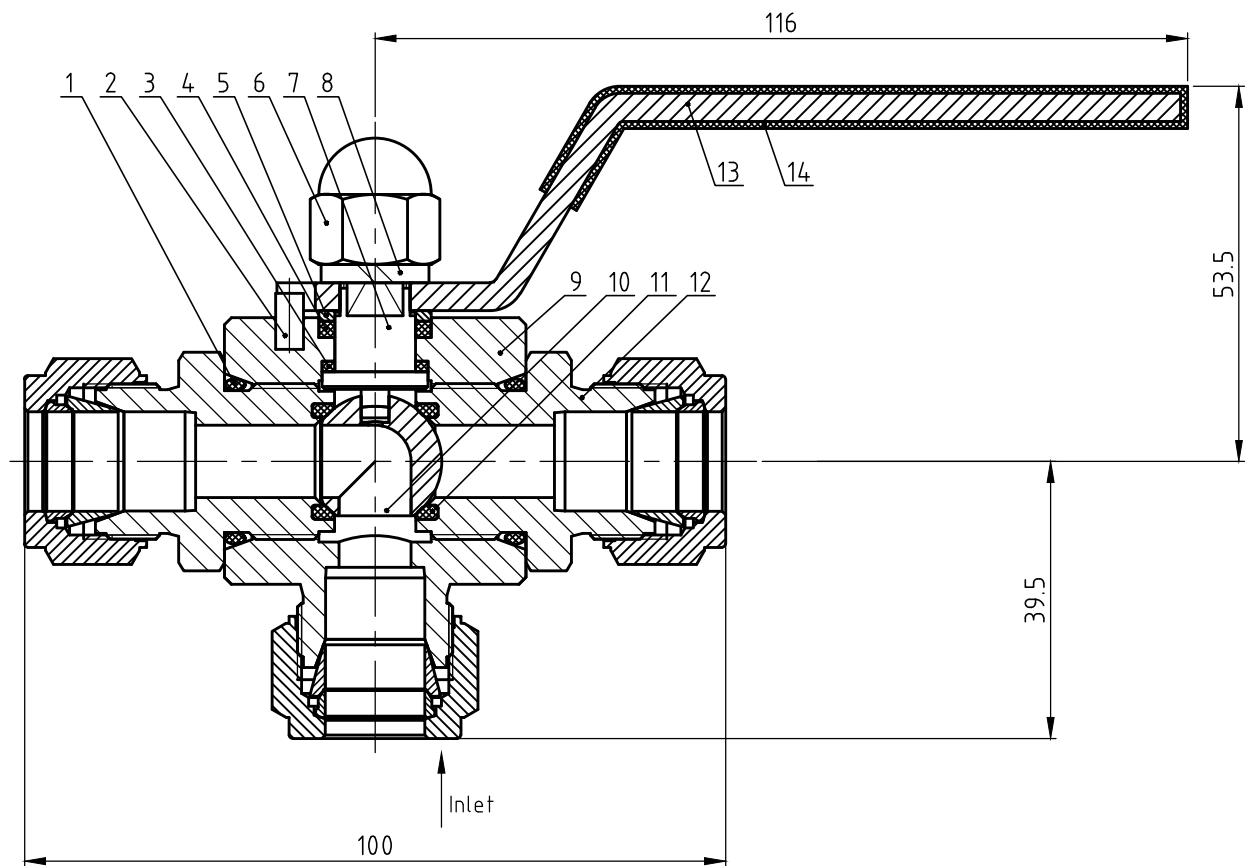
Technical Data:

Max. Work Pressure	6000psi@ -40 to 100°F
Orifice Size	10.3mm
Work Temp.	-40(-40)~ 450°F(232°C)
Inlet Size	O.D. Ø12
Outlet Size	O.D. Ø12
Cv	7.5
Pneumatic Actuators Type	Spring Return
Valve Position	Normal Close
Air source drive pressure	4-7bar

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000(34.4)		
300 (148)	3200(220)		
400 (204)	1400(96.4)		
450 (232)	500(34.4)		

A	May.19, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-M12-P10-PSC-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	316 S.S./ASTM A479
2	Pin	316 S.S./ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A479
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Handle	304 S.S.
14	Handle sleeve	PVC

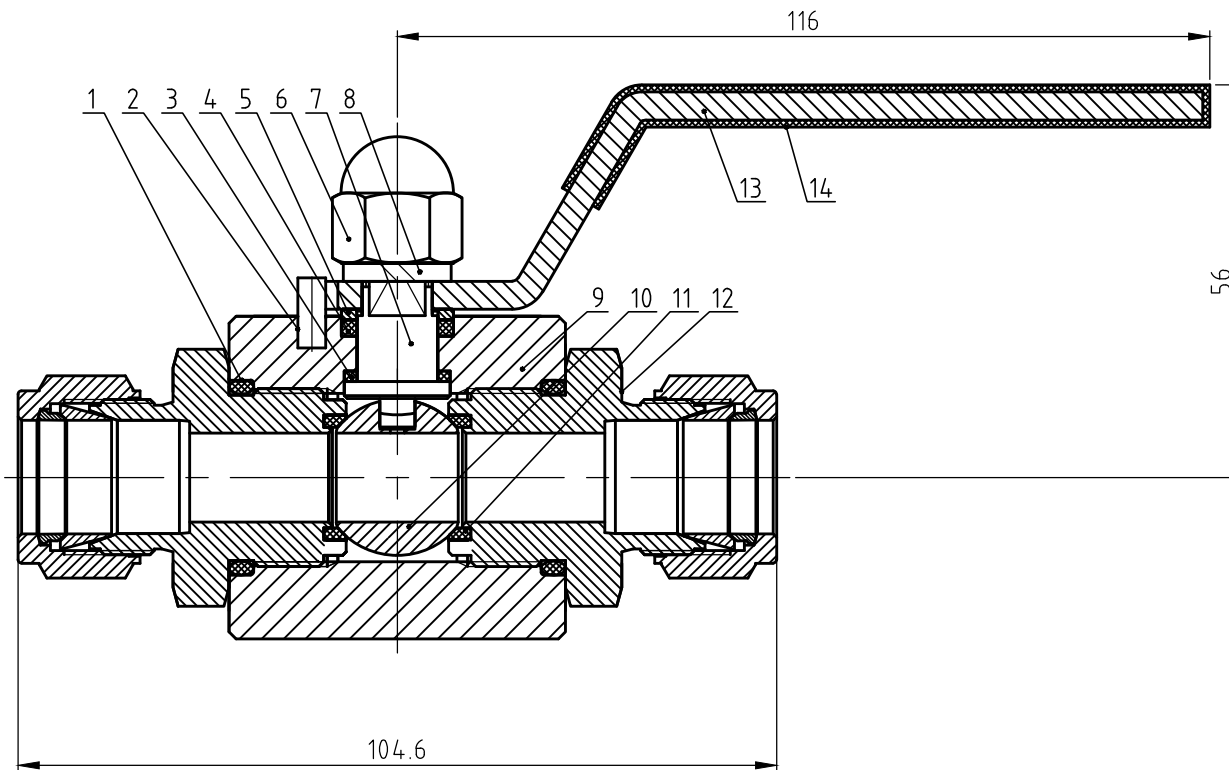
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.Ø14
Outlet Size	O.D.Ø14

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jan.11.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M14-P10-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	FKM
2	Pin	304.S.S
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	N04400/ASTM B164
8	Spring Washer	304.S.S
9	Body	N04400/ASTM B564
10	Ball	N04400/ASTM B164
11	Seat	PEEK
12	Connect	N04400/ASTM B164
13	Handle	304.S.S
14	Handle sleeve	PVC

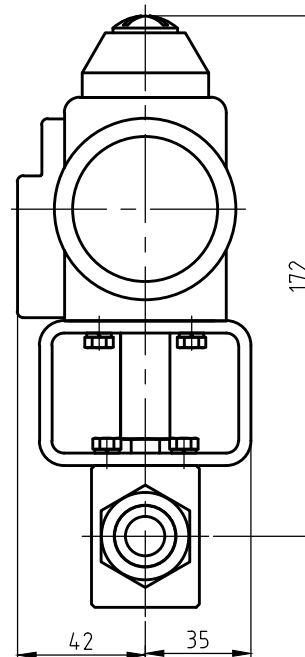
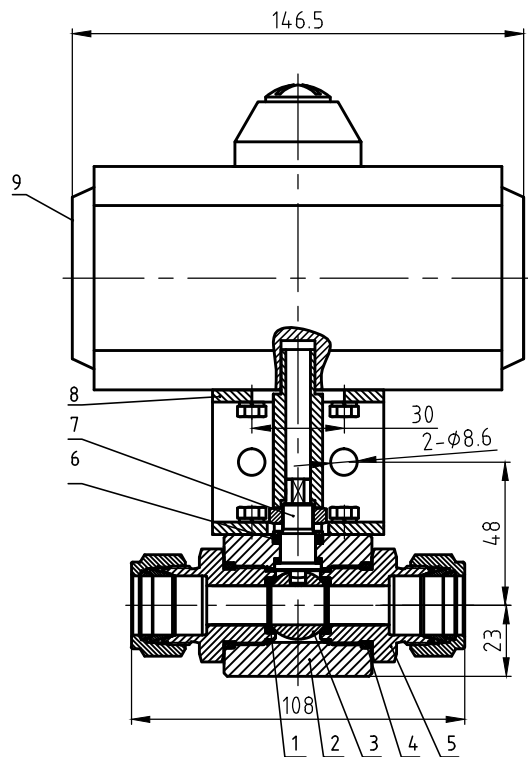
Technical Data:

Orifice Size	12.7mm
Inlet Size	O.D.Ø18
Outlet Size	O.D.Ø18

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Nov.23.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M18-P13-A400		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PEEK
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	FKM
5	Connector	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Stem	316 S.S./ASTM A479
8	Bracket	304 S.S.
9	Pneumatic Actuators	

NOTE:

Pneumatic Actuators Type: Single Action

Valve Position: Normal Close

Air source drive pressure: 4-7bar

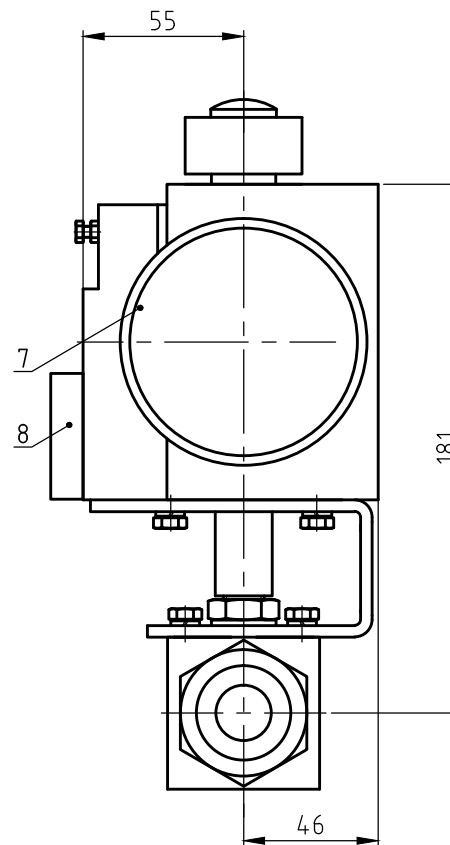
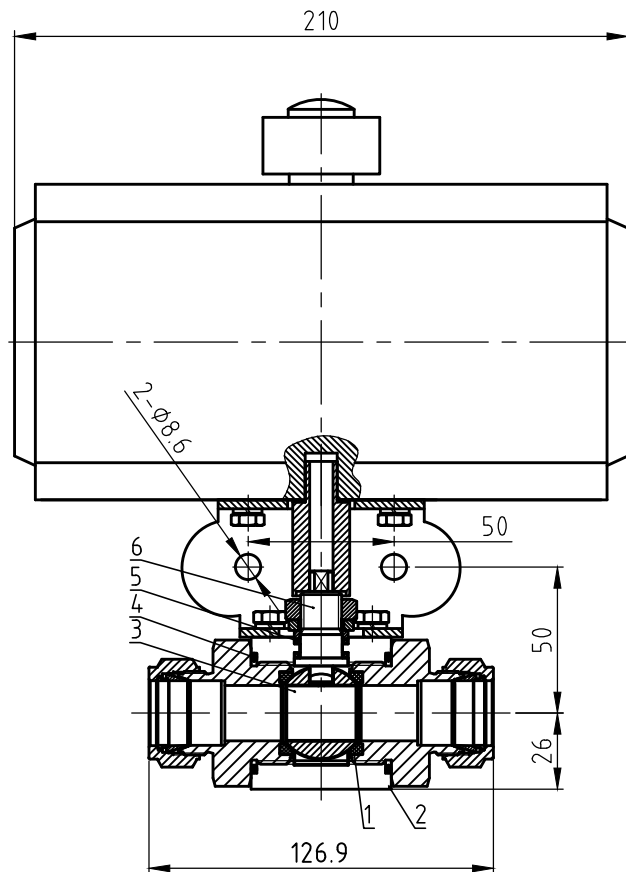
Technical Data:

Orifice Size	12.7mm
Inlet Size	O.D.ø22
Outlet Size	O.D.ø22

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Sep.23, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-M22-P13-PSC-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Seat	PEEK
2	Body	316 S.S./ASTM A479
3	Ball	316 S.S./ASTM A479
4	O-ring	FKM
5	Packing	PTFE/ASTM D1710
6	Stem	316 S.S./ASTM A479
7	Pneumatic Actuators	
8	Solenoid valve	

NOTE

Pneumatic Actuators Type: Single Action

Valve Position: Normal Close

Air source drive pressure: 4-7bar

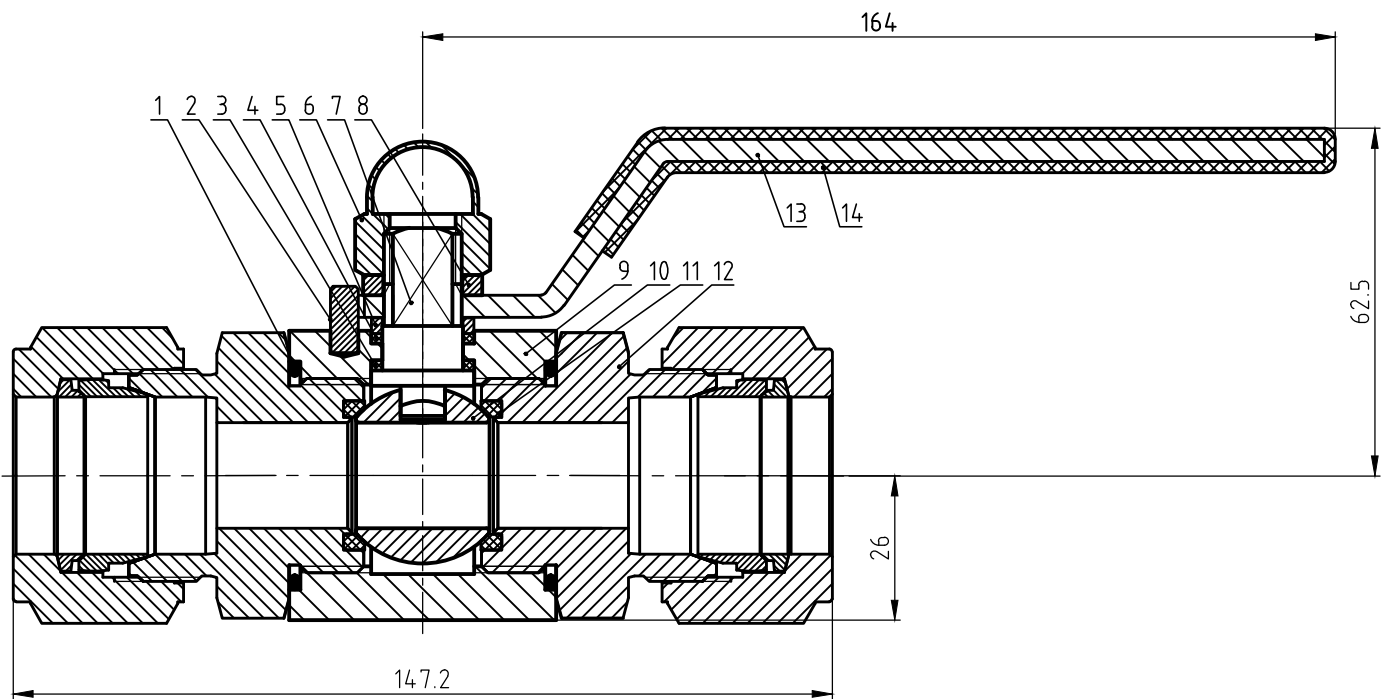
Technical Data:

Orifice Size	19mm
Inlet Size	O.D. Ø25
Outlet Size	O.D. Ø25

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Jun.09, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-M25-P19-PSC-316-S		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	FKM
2	Pin	304.S.S
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316.S.S/ASTM A479
6	Nut	304.S.S
7	Stem	N04400/ASTM B164
8	Spring Washer	304.S.S
9	Body	N04400/ASTM B564
10	Ball	N04400/ASTM B164
11	Seat	PEEK
12	Connect	N04400/ASTM B164
13	Handle	304.S.S
14	Handle sleeve	PVC

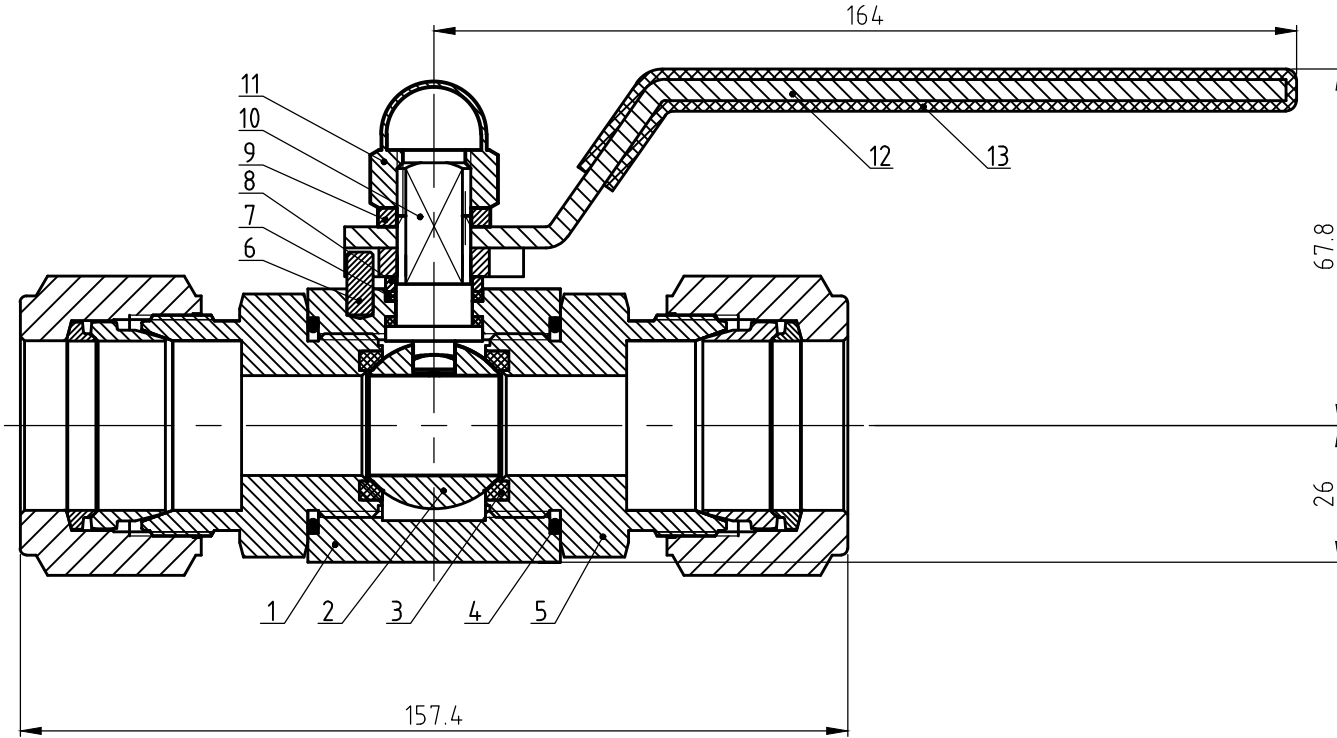
Technical Data:

Orifice Size	19mm
Inlet Size	O.D.Ø28
Outlet Size	O.D.Ø28

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Nov.23.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M28-P19-A400		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A479
2	Ball	316.S.S/ASTM A479
3	Seat	PEEK
4	O Ring	FKM
5	Connect	316.S.S/ASTM A479
6	Pin	304.S.S
7	Packing	PTFE/ASTM D1710
8	Gland	316.S.S/ASTM A479
9	Spring Washer	304.S.S
10	Stem	316.S.S/ASTM A479
11	Nut	304.S.S
12	Handle	304.S.S
13	Handle sleeve	PVC

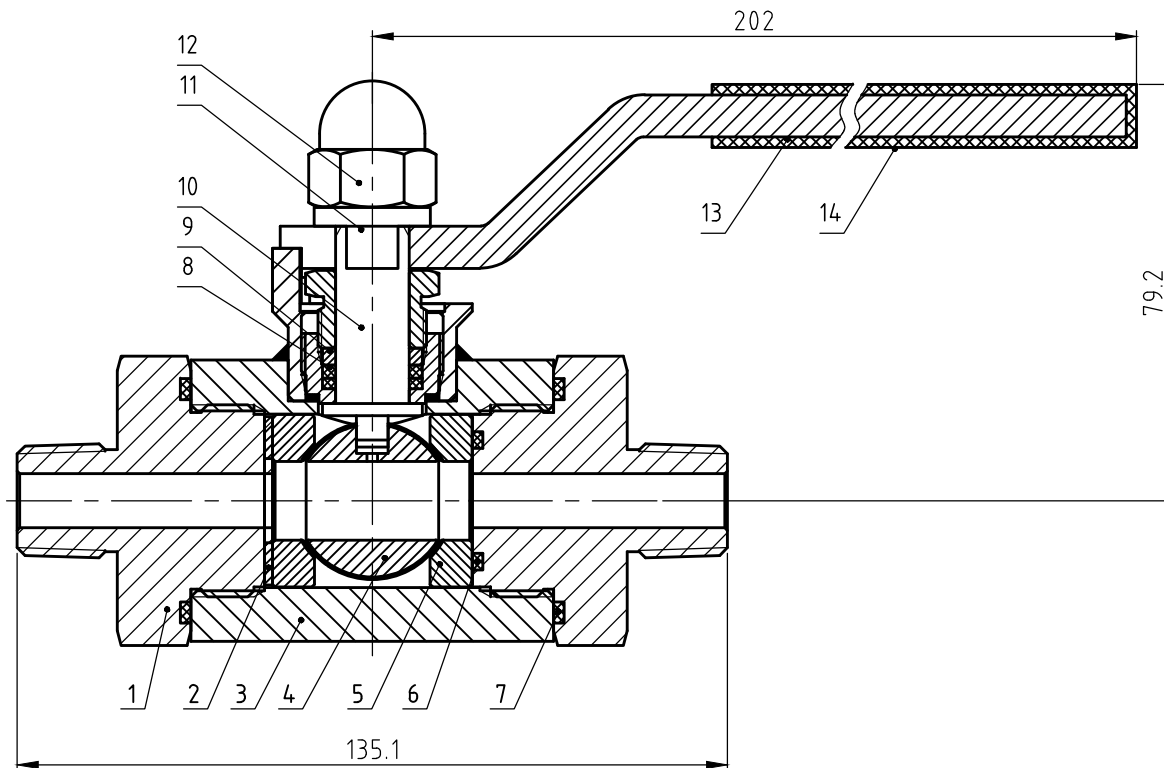
Technical Data:

Orifice Size	19mm
Inlet Size	O.D. Ø32
Outlet Size	O.D. Ø32

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	1500 (68.8)		
200 (93)	800 (55.1)		
300 (148)	500 (34.4)		
400 (204)	300 (20.6)		

A	Jun.04.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV4-M32-P19-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Connect	316 S.S./ASTM A479
2	Disc Spring	Inconel 718
3	Body	316 S.S./ASTM A479
4	Ball	316 S.S.+Ni coating
5	Seat	316 S.S.+Ni coating
6	Washer	Graphite
7	Washer	Graphite
8	Packing	Graphite
9	Gland	316 S.S./ASTM A479
10	Stem	316 S.S./ASTM A479
11	Spring Washer	304 S.S.
12	Nut	304 S.S.
13	Handle	304 S.S.
14	Handle Sleeve	PVC

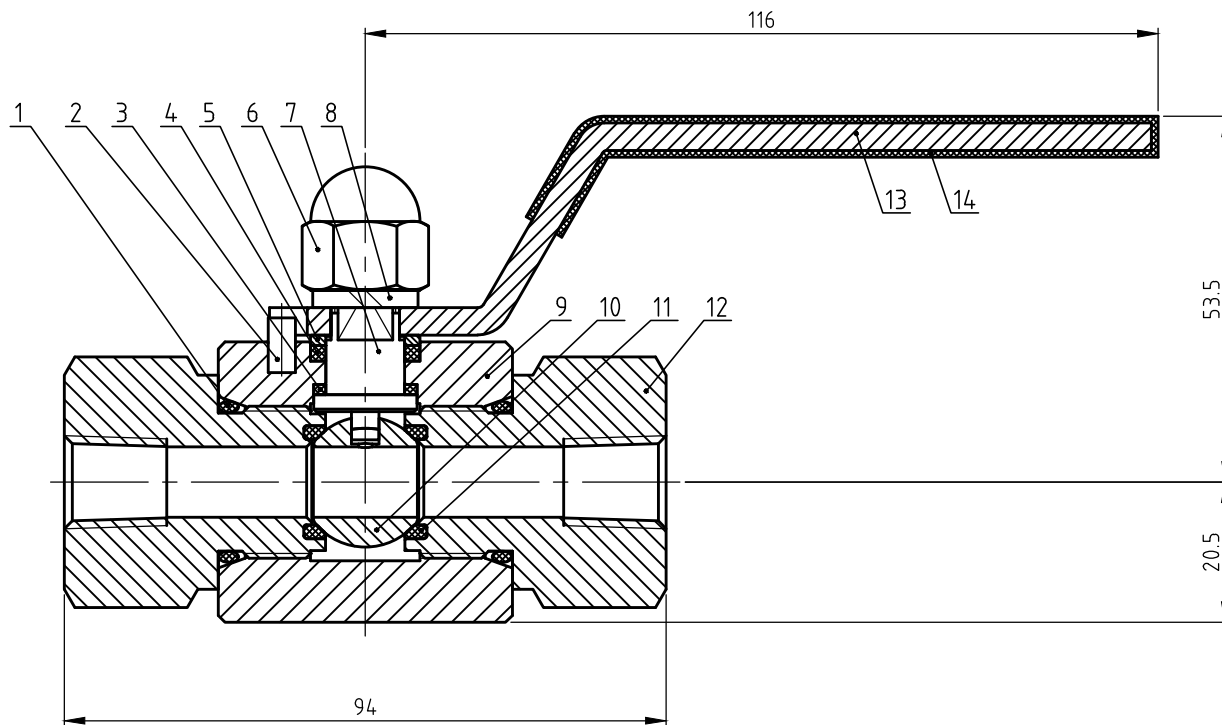
Technical Data:

Orifice Size	12.7mm
INLET	1/2 NPT
OUTLET	1/2 NPT

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	1000 (68.9)	700 (371)	1000 (68.9)
200 (93)	1000 (68.9)	800 (426)	1000 (68.9)
300 (148)	1000 (68.9)	850 (454)	1000 (68.9)
400 (204)	1000 (68.9)		
500 (260)	1000 (68.9)		
600 (315)	1000 (68.9)		

A	Sep.21, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV4-NPT8-13-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	FVMQ
2	Pin	316 S.S./ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A479
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Handle	304 S.S.
14	Handle sleeve	PVC

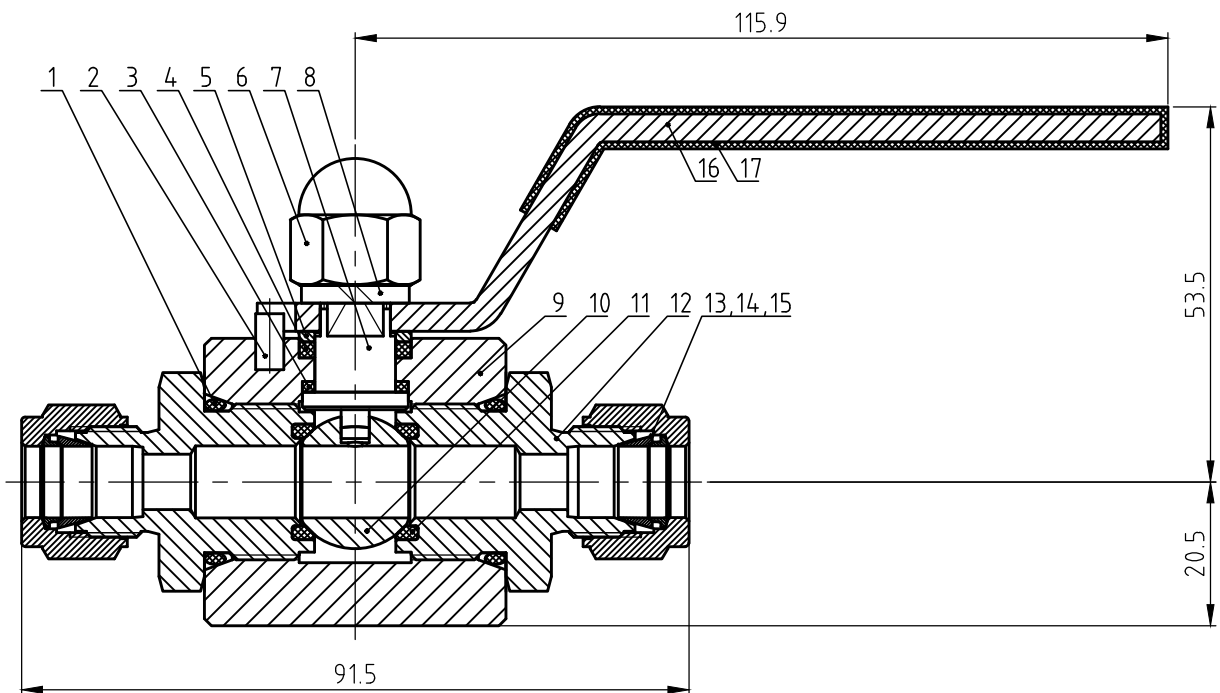
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	10000 (689)		
200 (93)	7000 (782)		

A	Jun.09.2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV41-FNPT8-P10-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Front Ferrules	316 S.S./ASTM A479
14	Back Ferrules	316 S.S./ASTM A479
15	Ferrules Nut	316 S.S./ASTM A479
16	Handle	304 S.S.
17	Handle Sleeve	PVC

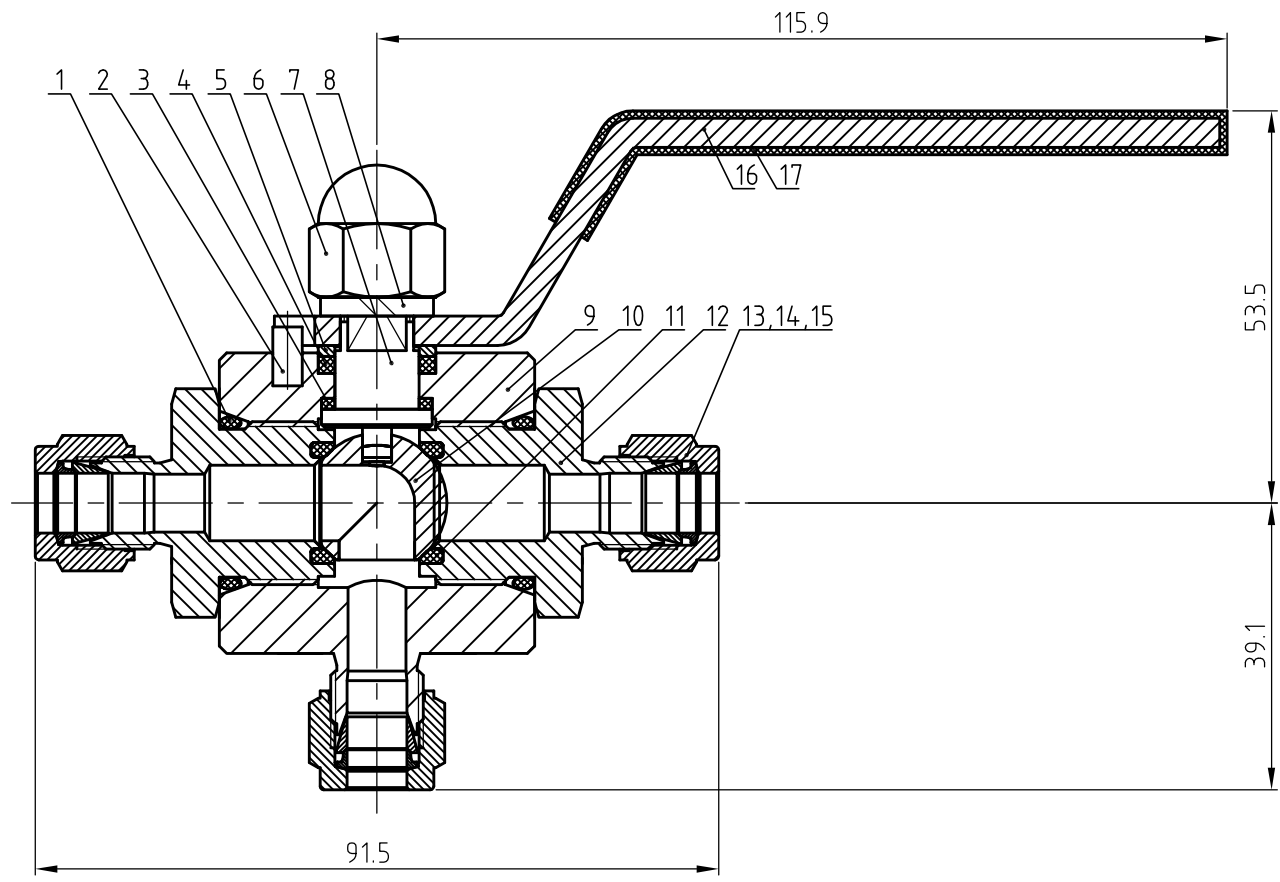
Technical Data:

Orifice Size	10.3
Inlet Size	O.D. $\phi 6$
Outlet Size	O.D. $\phi 6$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	10000 (689)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Nov.25, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV41-M6-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Front Ferrules	316 S.S./ASTM A479
14	Back Ferrules	316 S.S./ASTM A479
15	Ferrules Nut	316 S.S./ASTM A479
16	Handle	304 S.S.
17	Handle Sleeve	PVC

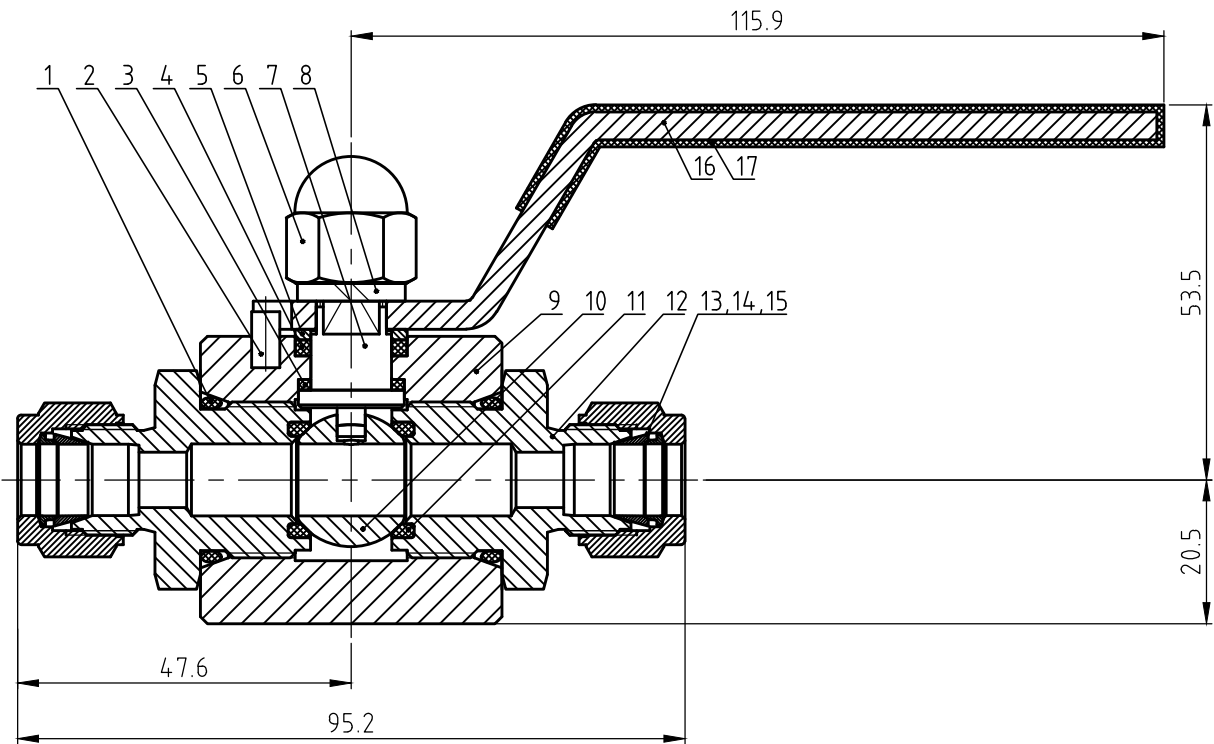
Technical Data:

Orifice Size	10.3
Inlet Size	O.D.Ø8
Outlet Size	O.D.Ø8

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	10000 (689)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Jan.15, 2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV41-M8-P10-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Front Ferrules	316 S.S./ASTM A479
14	Back Ferrules	316 S.S./ASTM A479
15	Ferrules Nut	316 S.S./ASTM A479
16	Handle	304 S.S.
17	Handle Sleeve	PVC

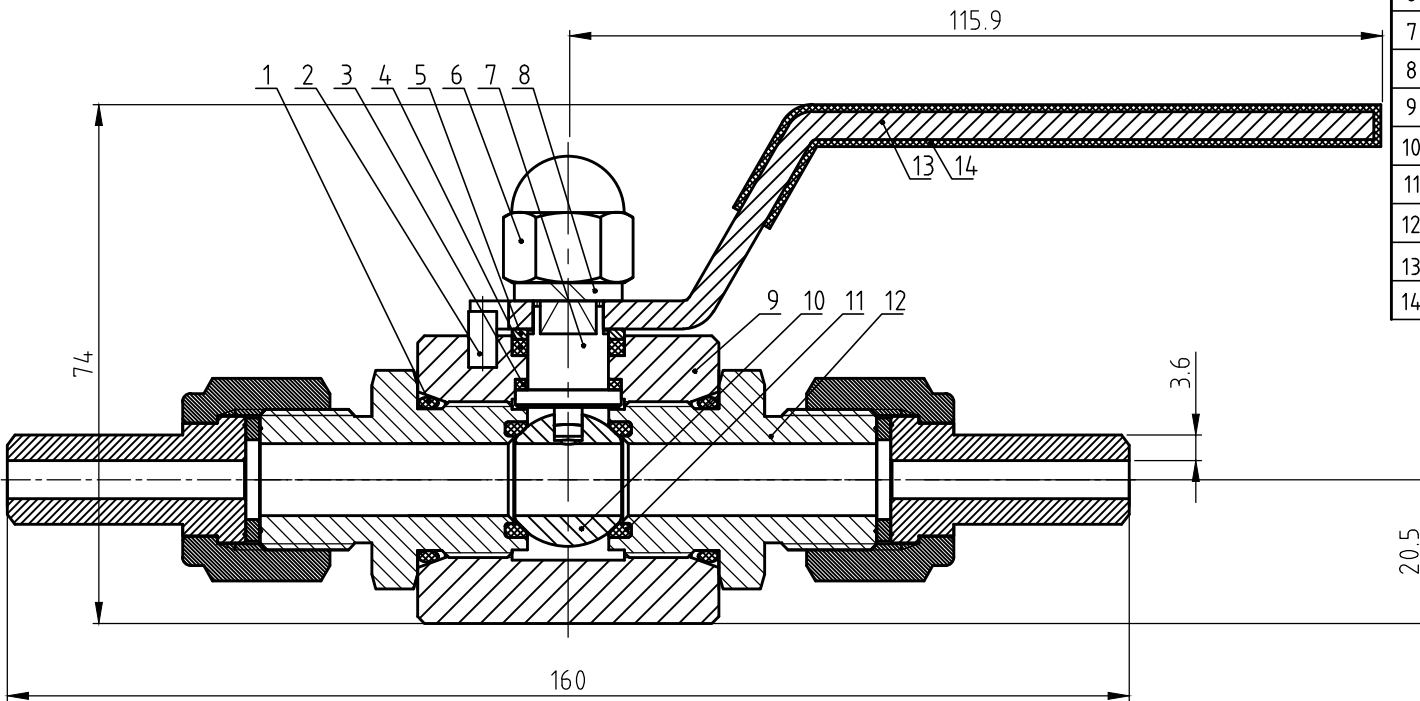
Technical Data:

Orifice Size	10.3
Inlet Size	O.D. ϕ 10
Outlet Size	O.D. ϕ 10
Cv	3.7

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	10000 (689)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96.4)		
450 (232)	500(34.4)		

A	Mar.11, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	BALL VALVE		
		Model	BV41-M10-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Handle	304 S.S.
14	Handle Sleeve	PVC

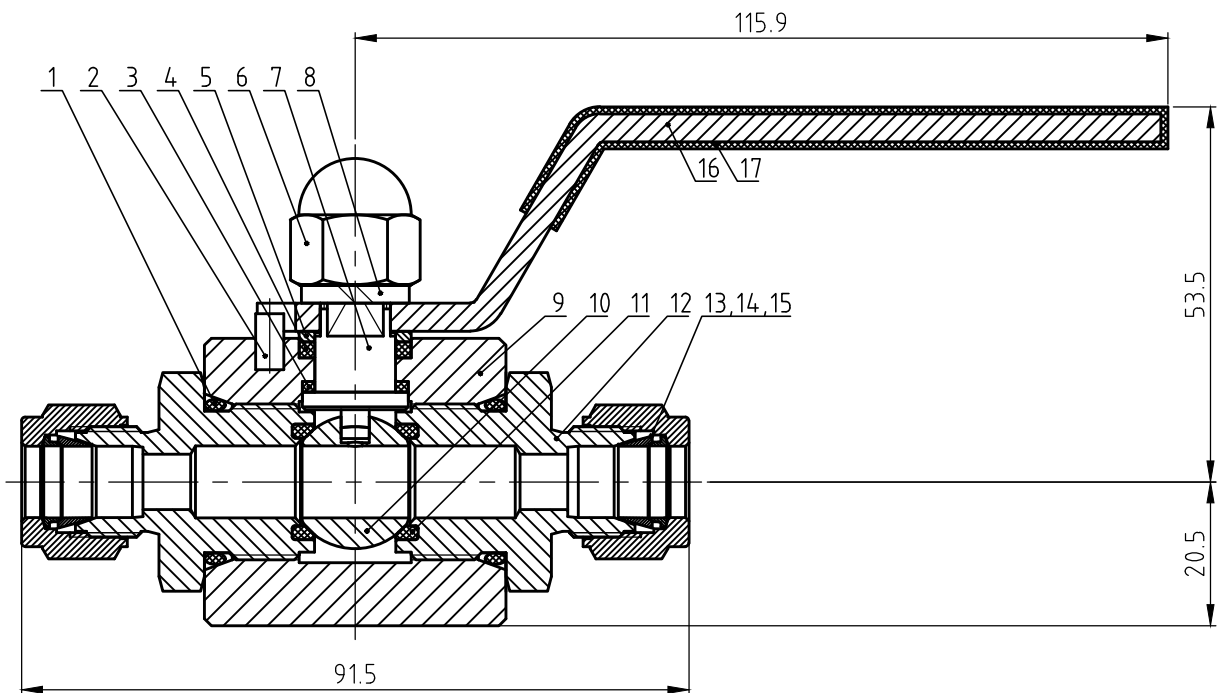
Technical Data:

Orifice Size	10.3
Inlet Size	ϕ3/8" Tube Butt Weld
Outlet Size	ϕ3/8" Tube Butt Weld

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	10000 (689)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Jul.26,2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV41-UGF8-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Front Ferrules	316 S.S./ASTM A479
14	Back Ferrules	316 S.S./ASTM A479
15	Ferrules Nut	316 S.S./ASTM A479
16	Handle	304 S.S.
17	Handle Sleeve	PVC

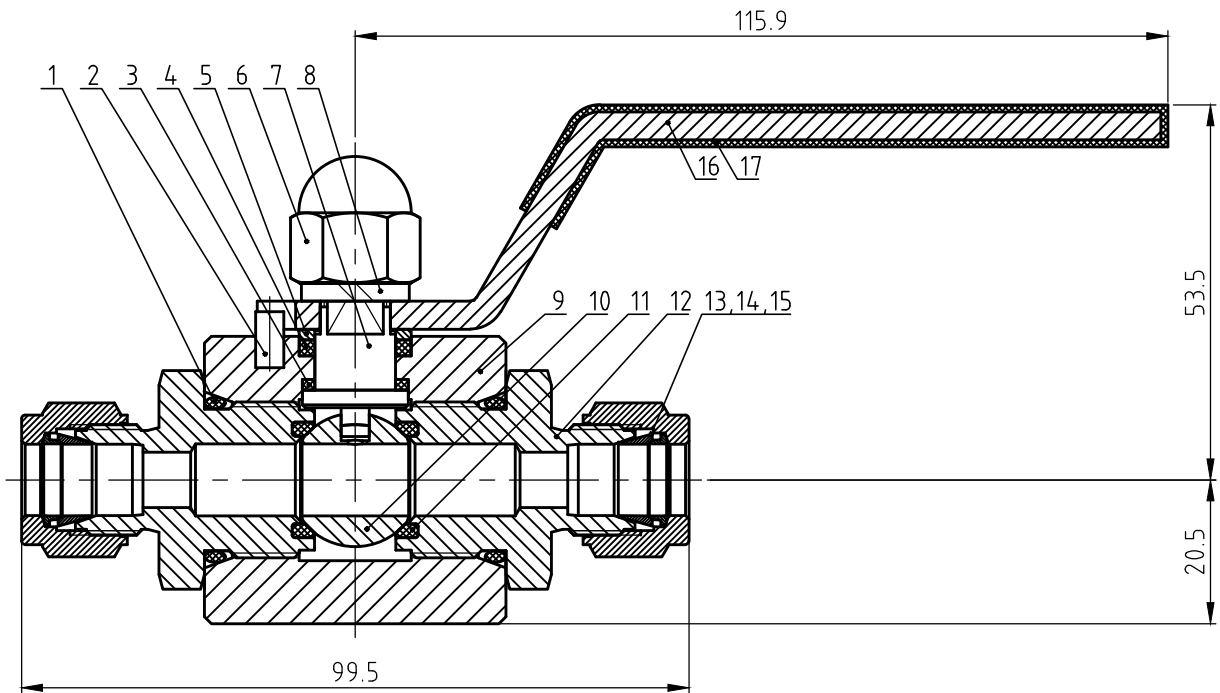
Technical Data:

Orifice Size	10.3
Inlet Size	O.D. $\phi 1/4''$
Outlet Size	O.D. $\phi 1/4''$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	10000 (689)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Mar.07, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV41-F4-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	O-ring	FKM
2	Pin	304 S.S.
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A276
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Front Ferrules	316 S.S./ASTM A479
14	Back Ferrules	316 S.S./ASTM A479
15	Ferrules Nut	316 S.S./ASTM A479
16	Handle	304 S.S.
17	Handle Sleeve	PVC

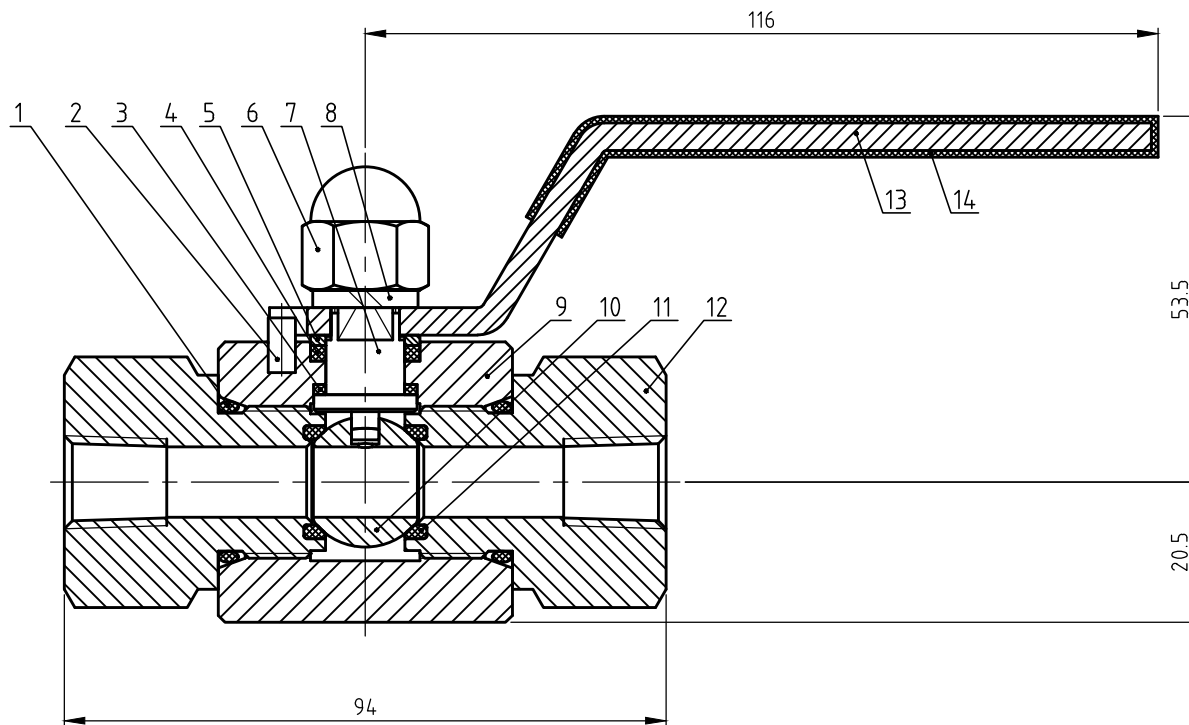
Technical Data:

Orifice Size	10.3
Inlet Size	O.D. $\phi 1/2''$
Outlet Size	O.D. $\phi 1/2''$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (38)	10000 (689)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96.4)		
450 (232)	500 (34.4)		

A	Nov.25, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV41-F8-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	316 S.S./ASTM A479
2	Pin	316 S.S./ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A479
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Handle	304 S.S.
14	Handle sleeve	PVC

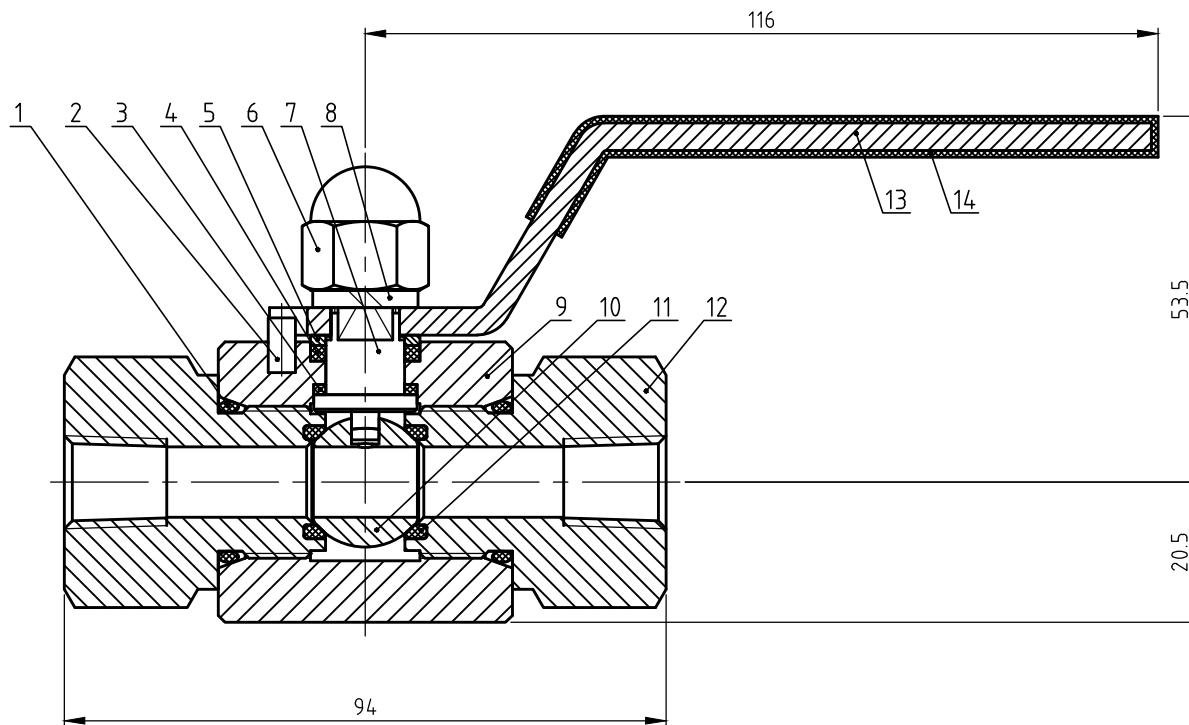
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	10000 (689)		
200 (93)	7000 (782)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Sep.10.2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV41-FNPT8-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	O Ring	316 S.S./ASTM A479
2	Pin	316 S.S./ASTM A479
3	Bearing	PTFE/ASTM D1710
4	Packing	PTFE/ASTM D1710
5	Gland	316 S.S./ASTM A479
6	Nut	304 S.S.
7	Stem	316 S.S./ASTM A479
8	Spring Washer	304 S.S.
9	Body	316 S.S./ASTM A479
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connect	316 S.S./ASTM A479
13	Handle	304 S.S.
14	Handle sleeve	PVC

Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	7.5

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-40 (-40) to 100 (37)	10000 (689)		
200 (93)	7000 (782)		
300 (148)	4000 (275)		
400 (204)	1400 (96)		
450 (232)	100 (6.8)		

A	Sep.10.2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV41-FNPT8-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		