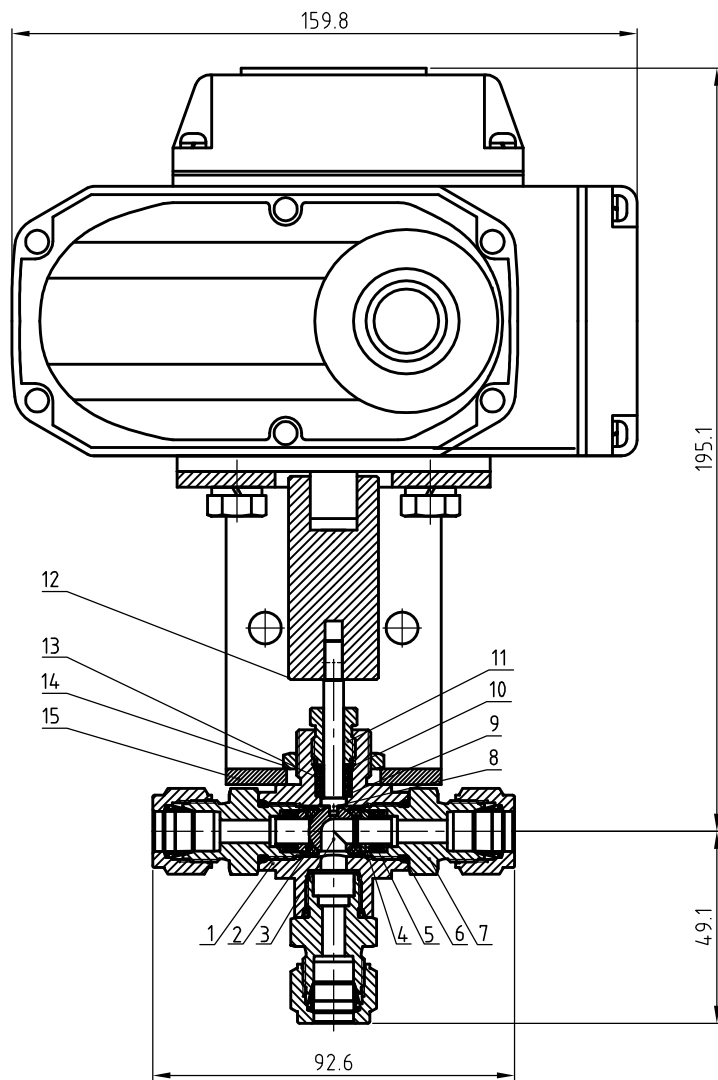
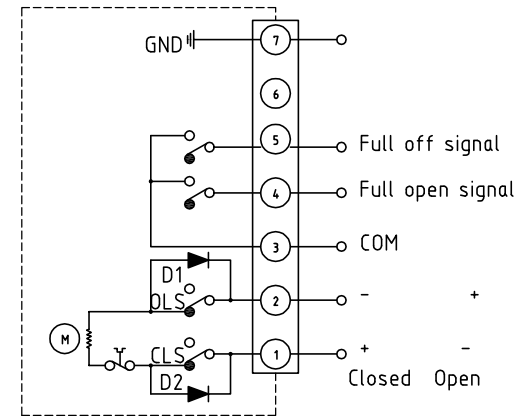




Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Seat	PEEK
3	Ball	316 S.S./ASTM A479
4	Retainer Seal	PTFE/ASTM D1710
5	O-Ring	FKM
6	O-Ring	FKM
7	Connector	316 S.S./ASTM A479
8	Stem	316 S.S./ASTM A479
9	Bearing	PTFE/ASTM D1710
10	Gland	316 S.S./ASTM A479
11	Packing Nut	316 S.S./ASTM A479
12	Stem dapter	316 S.S./ASTM A479
13	Packing	PTFE/ASTM D1710
14	Panel Nut	316 S.S./ASTM A479
15	Fixed plate	304 S.S./ASTM A240

External control circuit wiring diagram



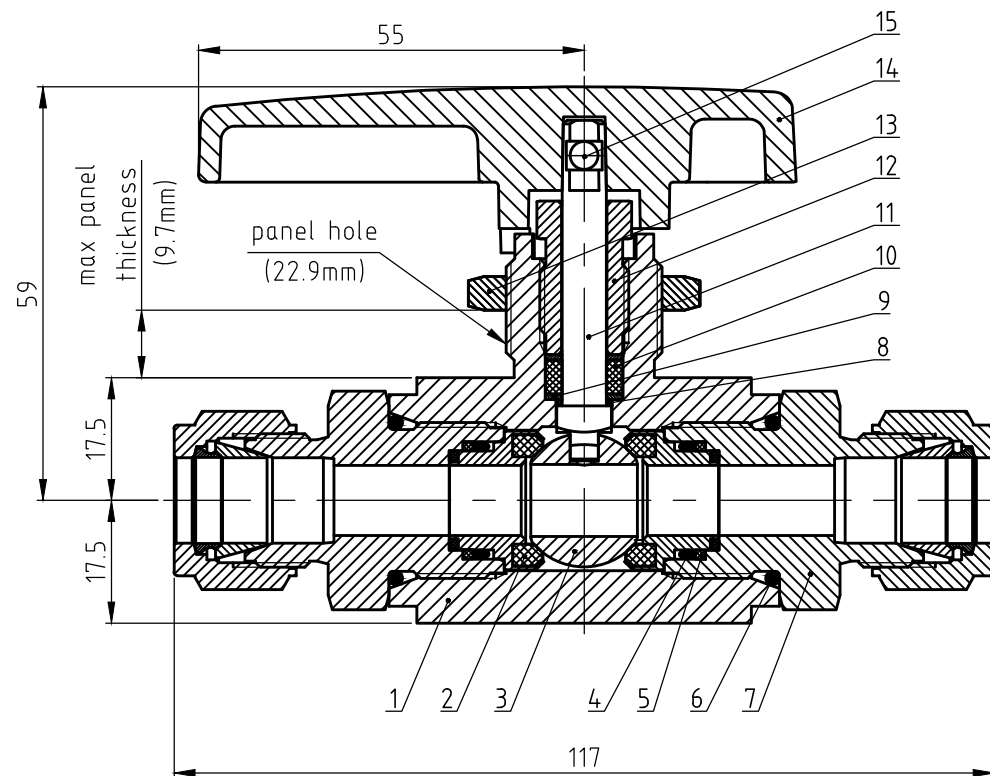
Technical Data:

Orifice Size	6.4mm
Inlet Size	O.D. $\phi 10$
Outlet Size	O.D. $\phi 10$
Control voltage	DC24V
Open/Closed time	20s

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Feb.13.2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-M10-P06-E3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316.S.S/ASTM A182
2	Seat	PCTFE/ASTM D1430
3	Ball	316.S.S/ASTM A479
4	O-Ring	Silicon rubber
5	Retainer Seal	PTFE/ASTM D1710
6	O-Ring	Silicon rubber
7	Connector	316.S.S/ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Gland	316.S.S/ASTM A479
10	Packing	PTFE/ASTM D1710
11	Stem	316.S.S/ASTM A479
12	Packing Nut	316.S.S/ASTM A479
13	Panel Nut	316.S.S/ASTM A479
14	Handle	ADC12/JIS H5302
15	Screw	304.S.S

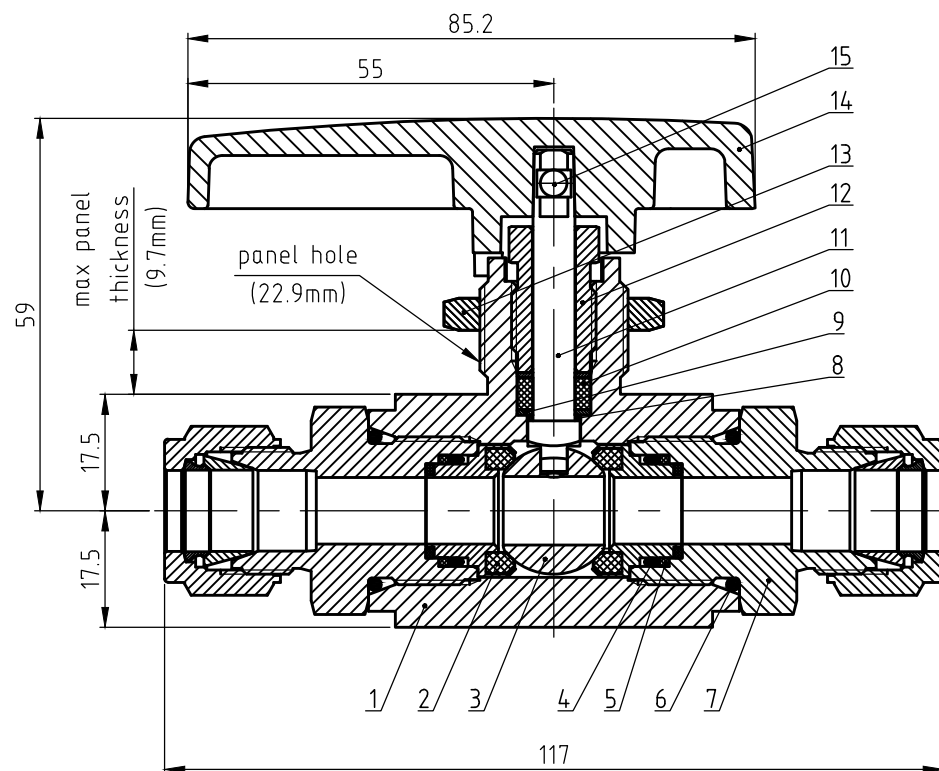
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. ϕ 12
Outlet Size	O.D. ϕ 12

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000 (413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Feb.22.2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-M12-K10-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Seat	PEEK
3	Ball	316 S.S./ASTM A479
4	O-Ring	FKM
5	Retainer Seal	PTFE/ASTM D1710
6	O-Ring	FKM
7	Connector	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Gland	316 S.S./ASTM A479
10	Packing	PTFE/ASTM D1710
11	Stem	316 S.S./ASTM A479
12	Packing Nut	316 S.S./ASTM A479
13	Panel Nut	316 S.S./ASTM A479
14	Handle	ADC12/JIS H5302
15	Screw	304 S.S.

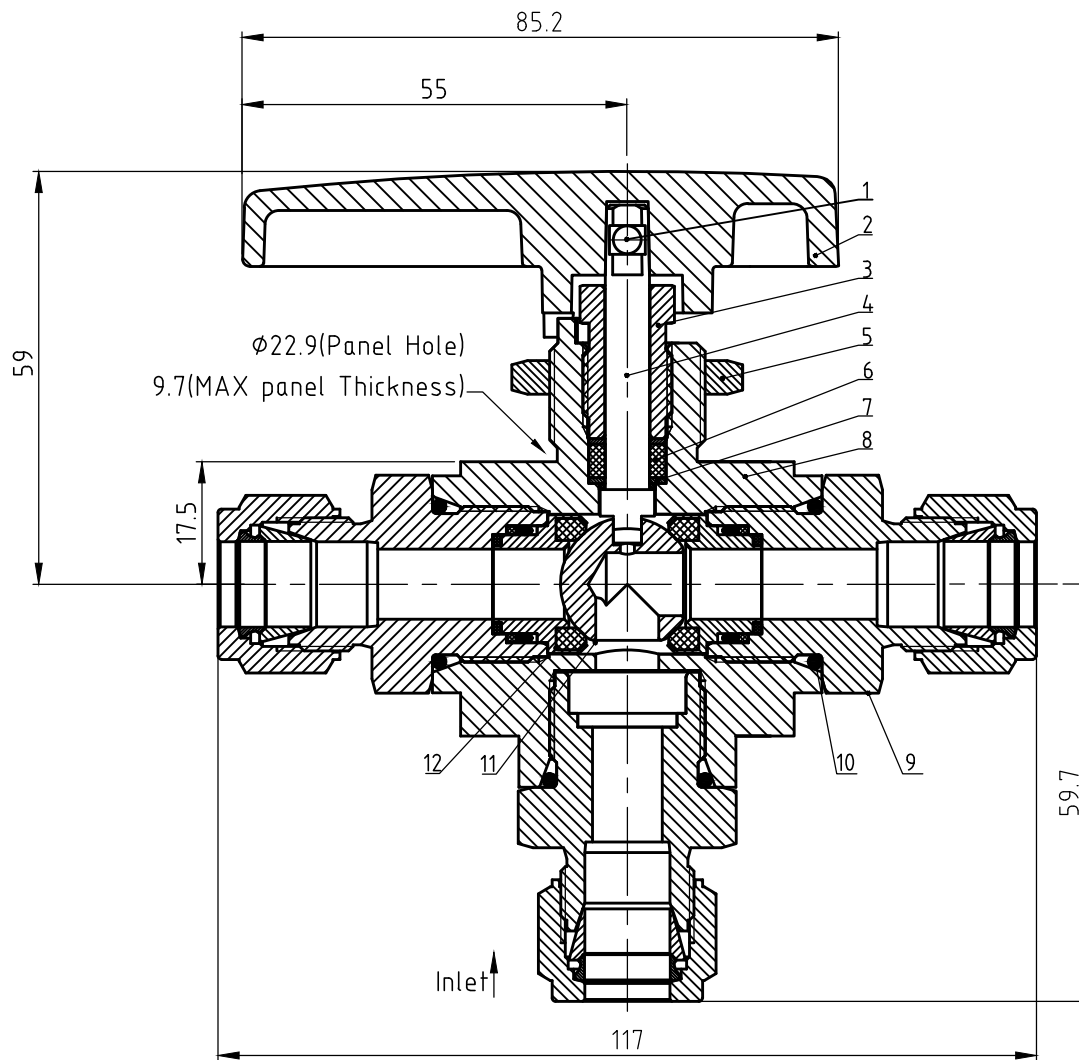
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. ϕ 12
Outlet Size	O.D. ϕ 12
Cv	6.42

Pressure vs. Temperature Ratings:

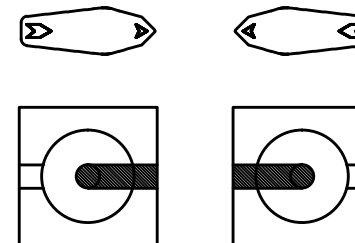
Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Jun.07,2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-M12-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	Galvanized steel
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	O-ring	FKM
11	Ball	316 S.S./ASTM A479
12	Seat	PEEK

Handle and runner form



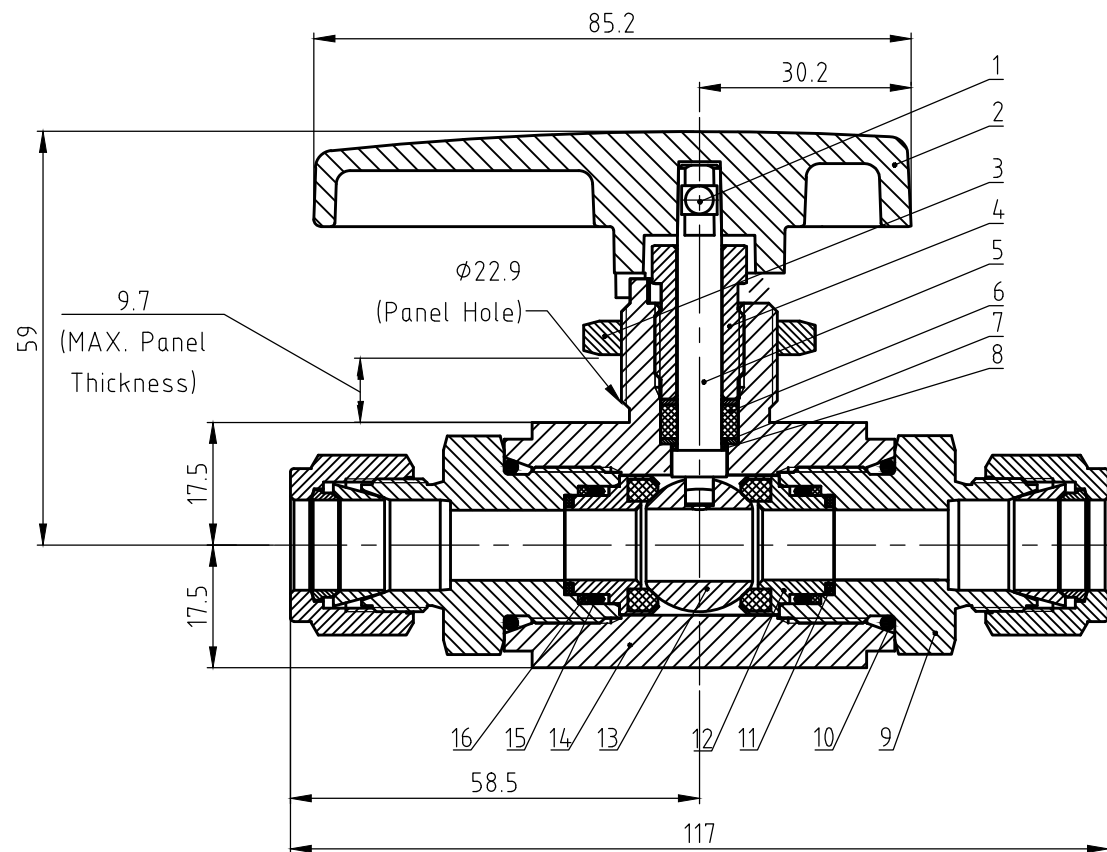
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.Ø14
Outlet Size	O.D.Ø14
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	600(41)		
450 (232)	200(13)		

A	Nov.10, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-M14-P10-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Nut	630 S.S./ASTM B783
4	Packing Nut	316 S.S./ASTM A479
5	Stem	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Connector	316 S.S./ASTM A479
10	O-ring	FKM
11	Gland	PTFE/ASTM D1710
12	Seat Assy.	PEEK+316 S.S.
13	Ball	316 S.S./ASTM A479
14	Body	316 S.S./ASTM A182
15	O-ring	FKM
16	Retaining Ring	PTFE/ASTM D1710

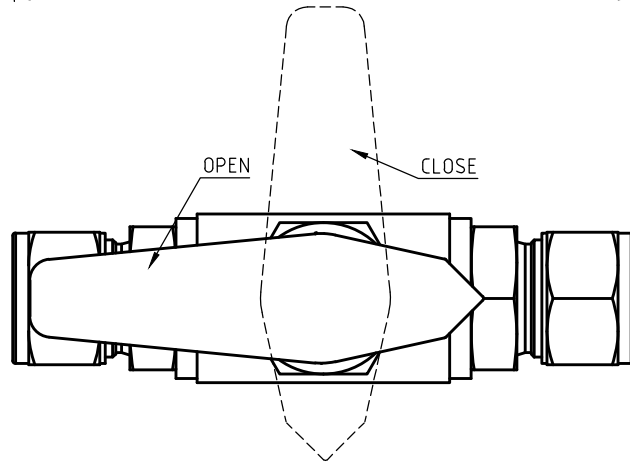
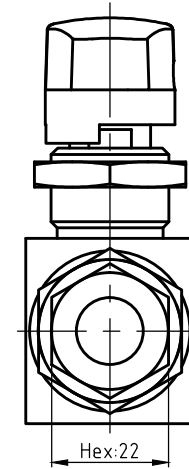
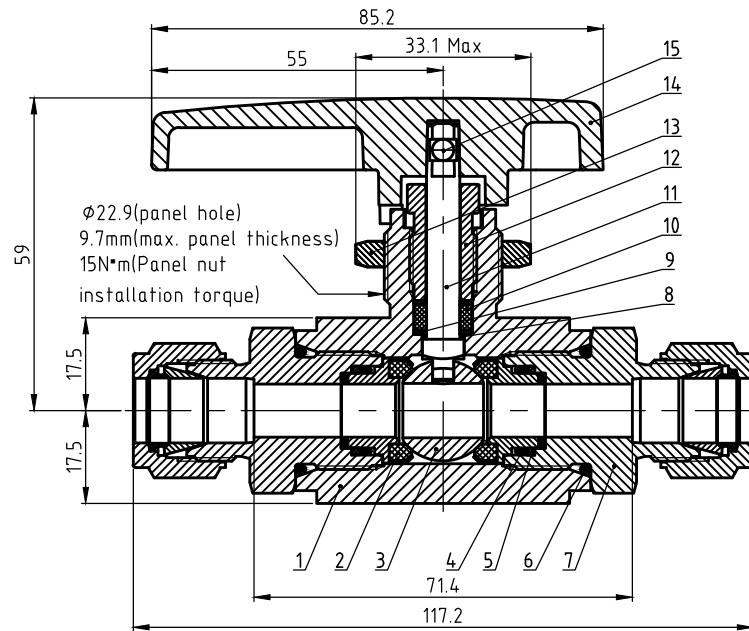
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. $\phi 14$
Outlet Size	O.D. $\phi 14$
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-54) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Nov.10, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-M14-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Seat	Peek
3	Ball	316 S.S./ASTM A479
4	O-Ring	FKM
5	Retainer Seal	PTFE/ASTM D1710
6	O-Ring	FKM
7	Connector	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Gland	316 S.S./ASTM A479
10	Packing	PTFE/ASTM D1710
11	Stem	316 S.S./ASTM A479
12	Packing Nut	316 S.S./ASTM A479
13	Panel Nut	316 S.S./ASTM A479
14	Handle	ADC12/JIS H5302
15	Screw	304 S.S.

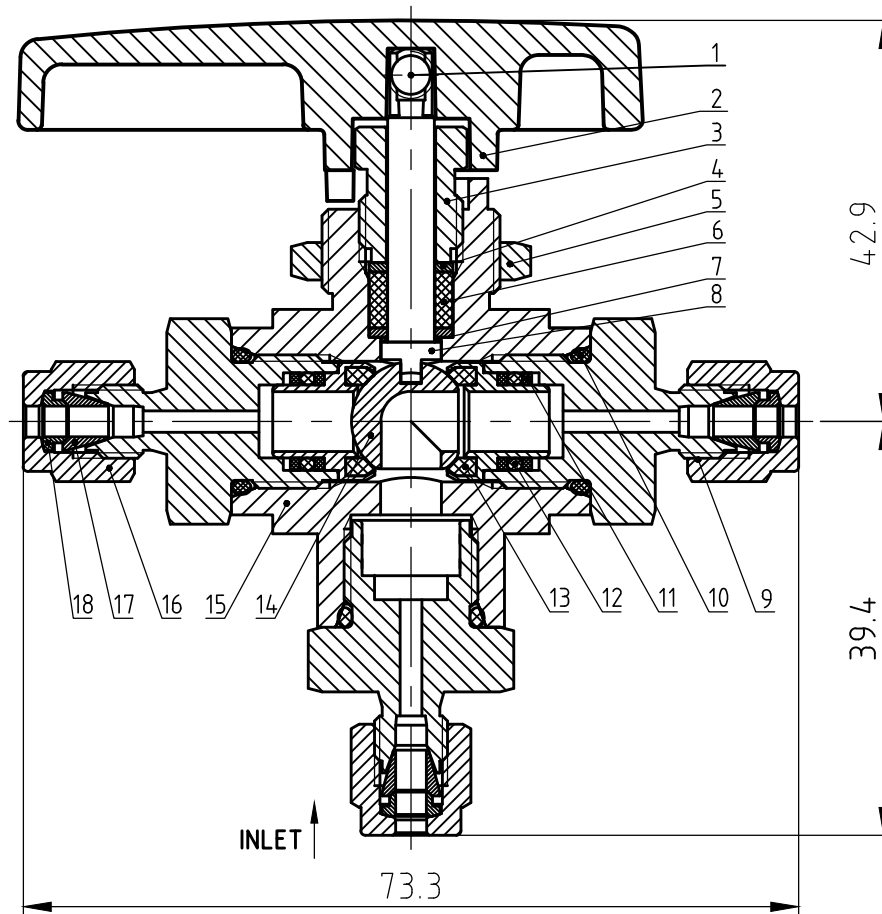
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D. Ø16
Outlet Size	O.D. Ø16
Cv	6.4

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	600(41)		
450 (232)	200(13)		

A	Oct.09, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-M16-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

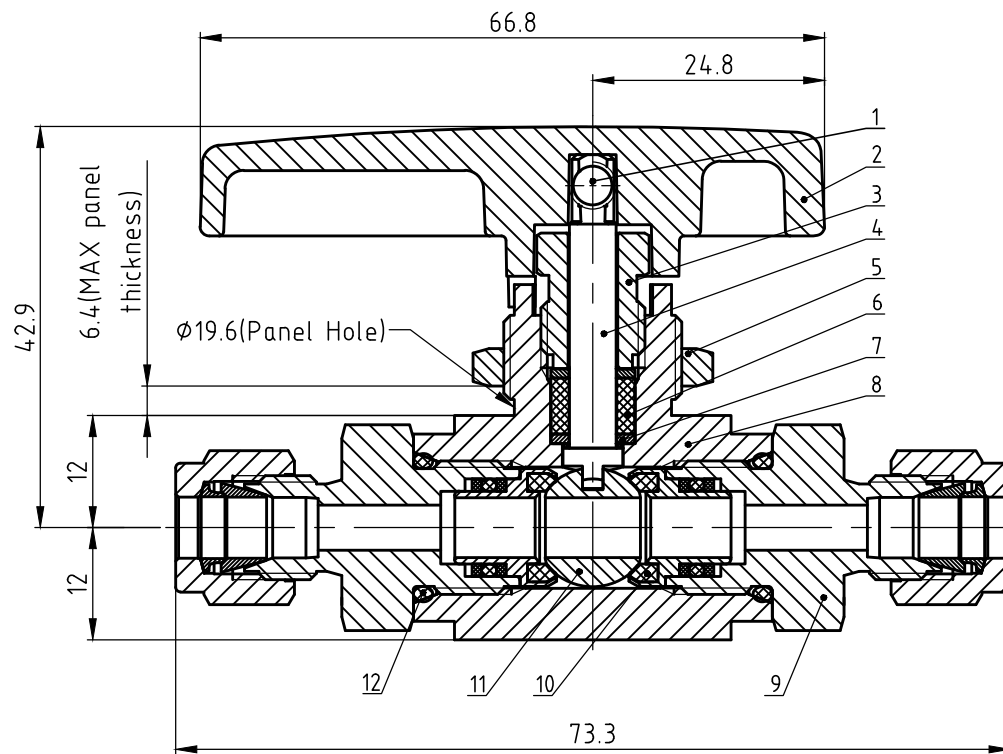
Technical Data:

Orifice Size	6.4mm
Inlet Size	O.D. $\phi 1/16''$
Outlet Size	O.D. $\phi 1/16''$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Sep.09.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-F1-P06-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

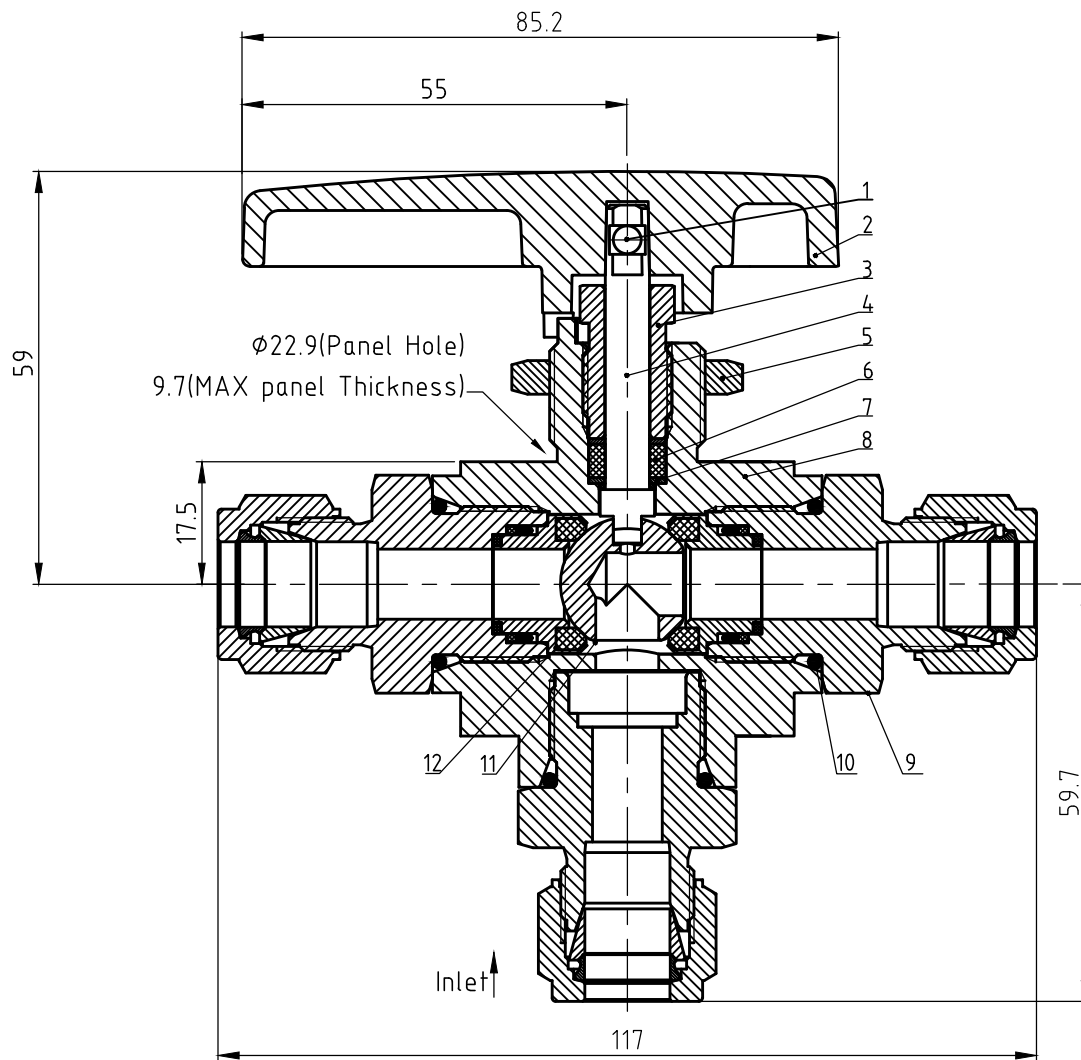
Technical Data:

Orifice Size	6.4mm
Inlet Size	O.D. $\phi 1/16''$
Outlet Size	O.D. $\phi 1/16''$

Pressure vs. Temperature Ratings:

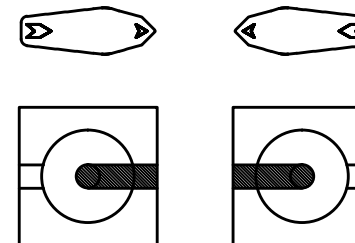
Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Sep.09.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-F1-P06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	Galvanized steel
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	O-ring	FKM
11	Ball	316 S.S./ASTM A479
12	Seat	PEEK

Handle and runner form



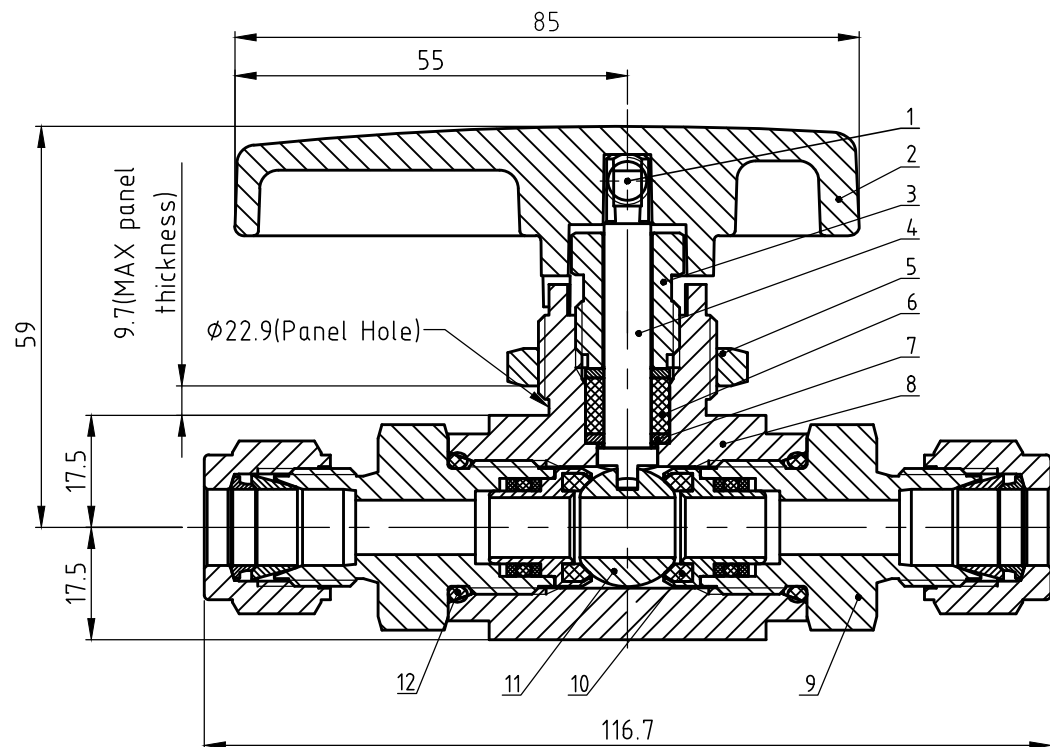
Technical Data:

Orifice Size	10.3mm
Inlet Size	O.D.Ø1/2"
Outlet Size	O.D.Ø1/2"
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	600(41)		
450 (232)	200(13)		

A	Apr.02, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-F8-P10-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

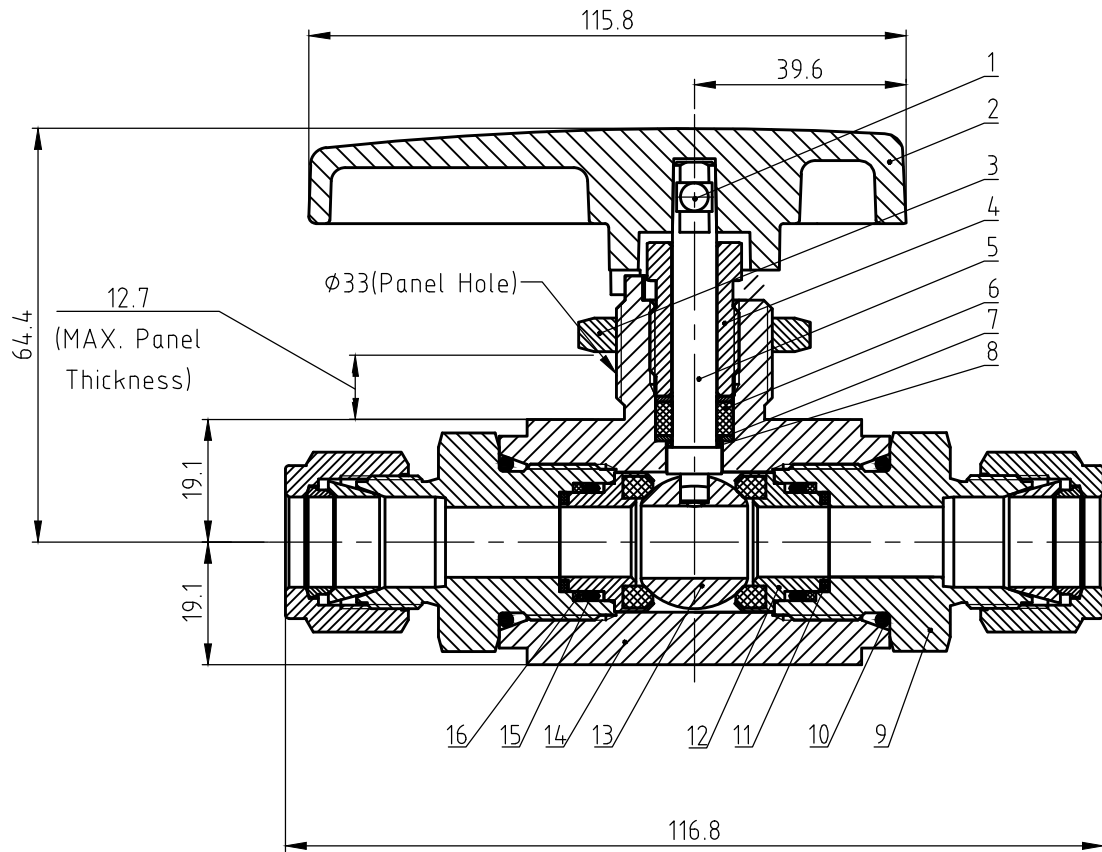
Technical Data:

Orifice Size	10.3mm
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)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	May.05.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-F8-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Nut	630 S.S./ASTM B783
4	Packing Nut	316L S.S./ASTM A479
5	Stem	316L S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Gland	316L S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Connector	316L S.S./ASTM A479
10	O-ring	Silicon Rubber
11	Gland	PTFE/ASTM D1710
12	Seat Assy.	PCTFE+316 S.S.
13	Ball	316L S.S./ASTM A479
14	Body	316L S.S./ASTM A182
15	O-ring	Silicon Rubber
16	Retaining Ring	PTFE/ASTM D1710

Technical Data:

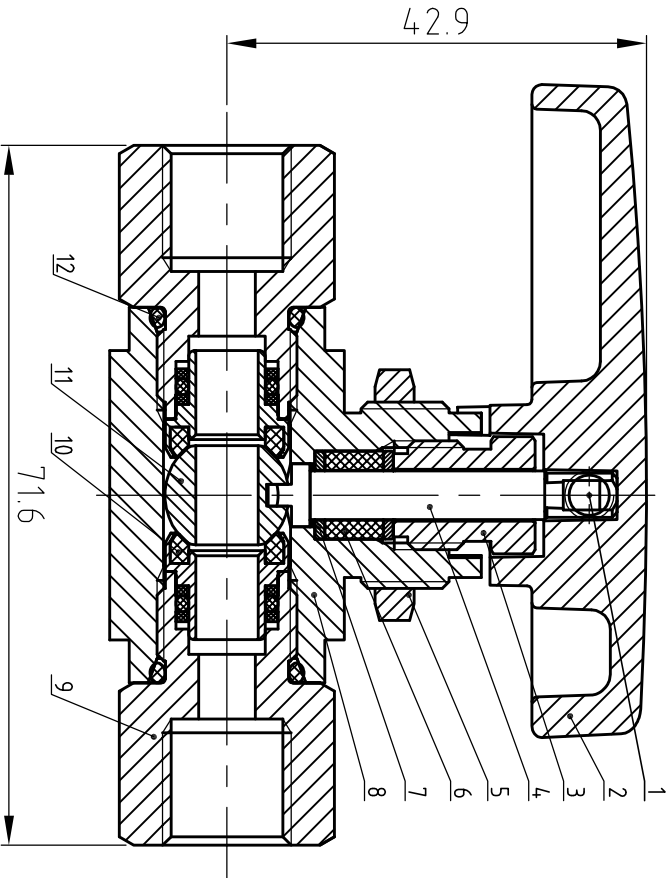
Orifice Size	12.7mm
Inlet Size	O.D. $\phi 3/4''$
Outlet Size	O.D. $\phi 3/4''$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000 (413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Jul.17, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-F12-K13-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

No.	Component	Material Grade
1	Screw	304, S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM



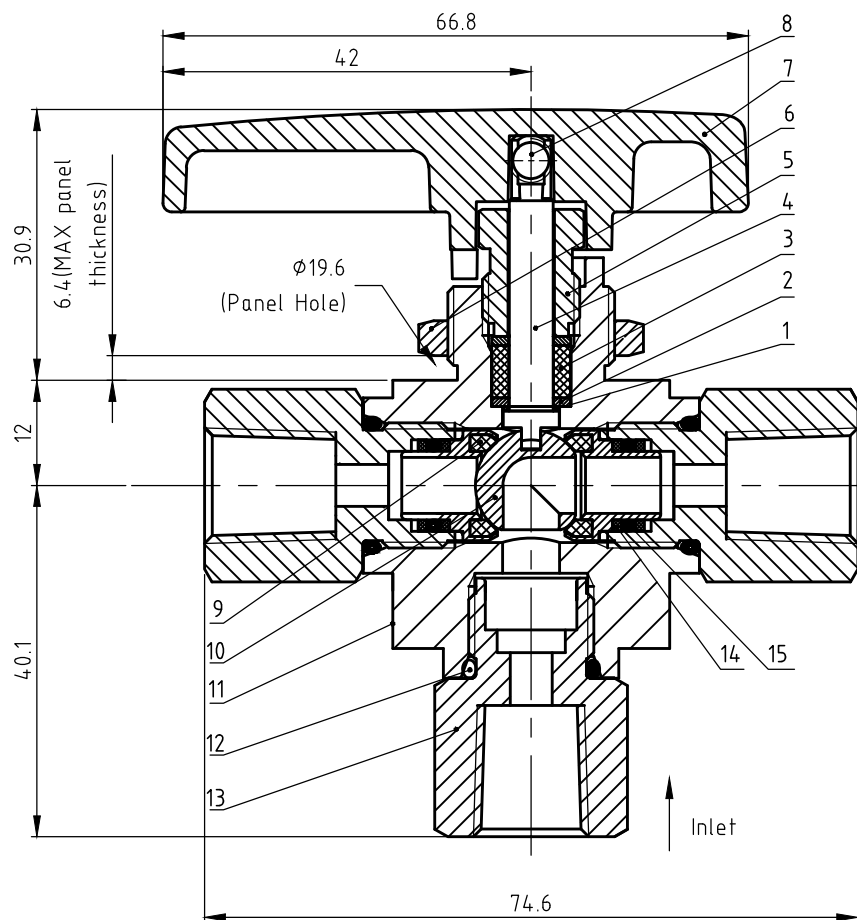
Technical Data:

Orifice Size	6.4mm
Inlet Size	1/4, BSP(F)
Outlet Size	1/4, BSP(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Mar.11.2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
	Model	BV1-FBP4-P06-316			
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Bearing	PTFE/ASTM D1710
2	Gland	316 S.S./ASTM A479
3	Packing	PTFE/ASTM D1710
4	Stem	316 S.S./ASTM A479
5	Packing Nut	316 S.S./ASTM A479
6	Nut	630 S.S./ASTM B783
7	Handle	ADC12/JIS H5302
8	Screw	304 S.S.
9	Seat	PCTFE/ASTM D1430
10	Ball	316 S.S./ASTM A479
11	Body	316 S.S./ASTM A182
12	O-ring	Silicon Rubber
13	Connector	316 S.S./ASTM A479
14	Retaining Ring	PTFE/ASTM D1710
15	O-ring	Silicon Rubber

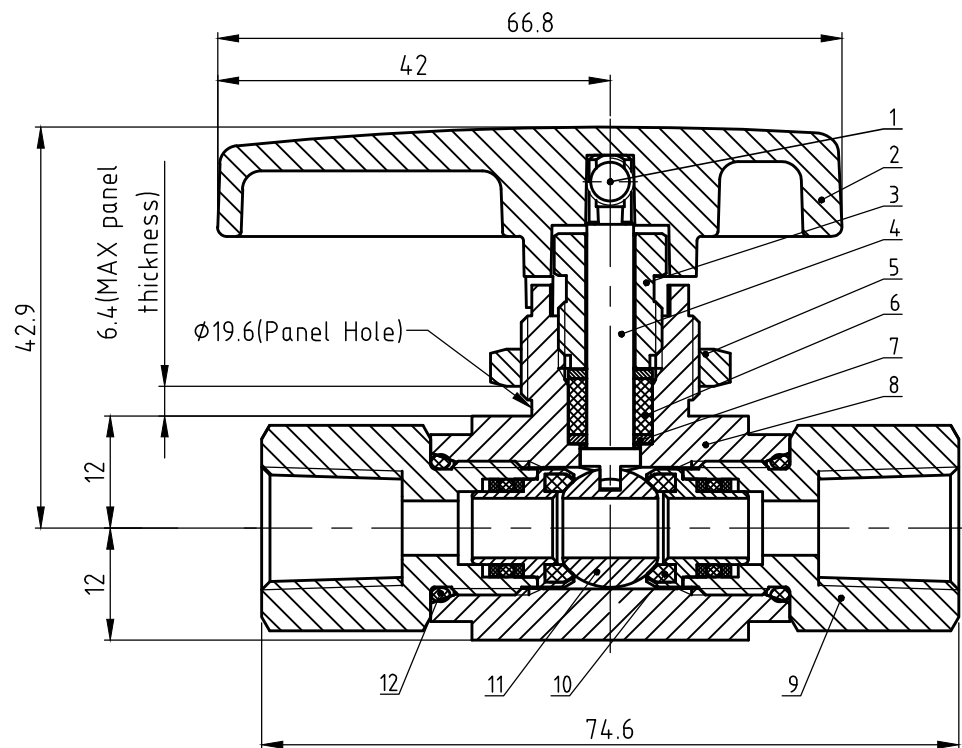
Technical Data:

Orifice Size	6.4mm
Inlet Size	1/4NPT(F)
Outlet 1 Size	1/4NPT(F)
Outlet 2 Size	1/4NPT(F)

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000(413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Oct.24.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-FNPT4-K06-3-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PCTFE
11	Ball	316 S.S./ASTM A182
12	O-ring	Silicon Rubber

Technical Data:

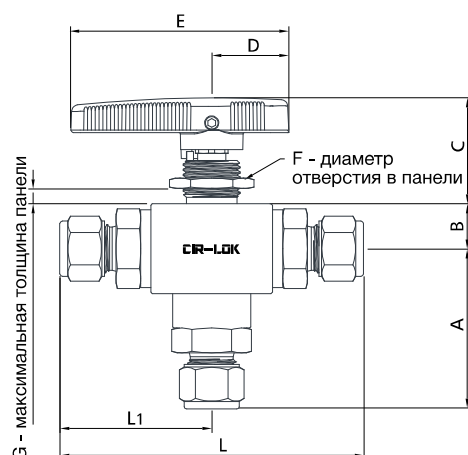
Orifice Size	6.4mm
Inlet Size	1/4NPT(F)
Outlet Size	1/4NPT(F)

Pressure vs. Temperature Ratings:

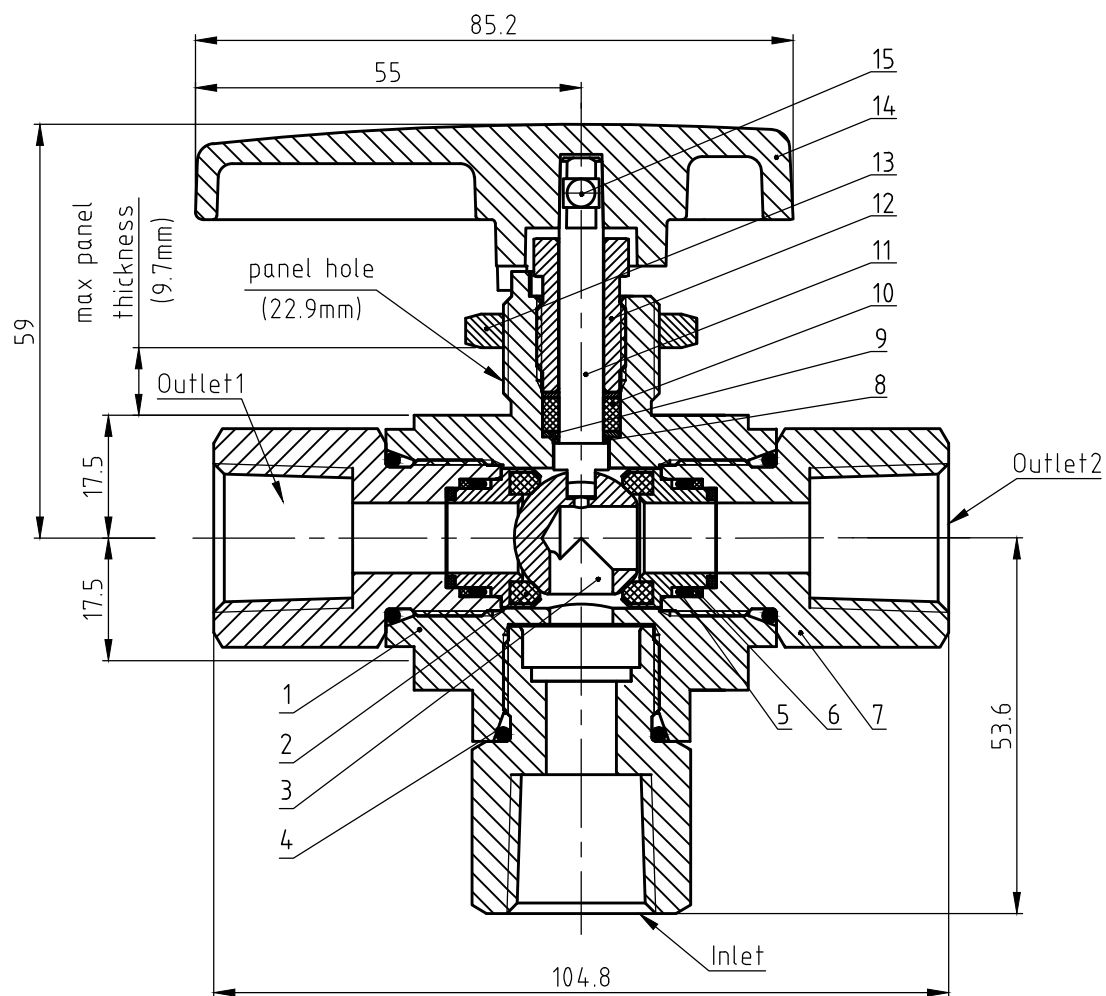
Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000(413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Oct.24, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-FNPT4-K06-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		

3-х ходовые краны



Артикул	Размер и тип торцевого соединения	Сечение, мм	Cv	Габариты, мм										
				L	L1	A	B	C	D	E	F	G		
BV1-F1-01-3-	Обжимные фитинги 1/16"	2.4	0.21	66.0	33.0	35.3	8.4	25.4	29.5	47.8	14.7	4.6		
BV1-F2-02-3-	Обжимные фитинги 1/8"			69.1	34.5									
BV1-M3-02-3-	Обжимные фитинги 3 мм			69.6	34.8									
BV1-FBT2-04-3-	Внутренняя резьба R 1/8" BSPT	4.2	0.93	54.4	27.2	29.2								
BV1-FBP2-04-3-	Внутренняя резьба G 1/8" BSPP			60.0	30.0	32.0								
BV1-FNPT2-04-3-	Внутренняя резьба 1/8" NPT													
BV1-MBT2-04-3-	Внешняя резьба R 1/8" BSPT													
BV1-MBP2-04-3-	Внешняя резьба G 1/8" BSPP													
BV1-NPT2-04-3-	Внешняя резьба 1/8" NPT													
BV1-MBT4-04-3-	Внешняя резьба R 1/4" BSPT			68.6	34.3	36.3								
BV1-MBP4-04-3-	Внешняя резьба G 1/4" BSPP													
BV1-NPT4-04-3-	Внешняя резьба 1/4" NPT	4.7	1.05	88.4	44.2	48.0								
BV1-F4-05-3-	Обжимные фитинги 1/4"			89.0	44.5	47.8								
BV1-M6-05-3-	Обжимные фитинги 6 мм													
BV1-F6-06-3-	Обжимные фитинги 3/8"	6.4	2.34	91.4	45.7	49.3	11.9	37.5	19.1	64.0	19.6	6.4		
BV1-M8-06-3-	Обжимные фитинги 8 мм			90.4	45.2	48.5								
BV1-M10-06-3-	Обжимные фитинги 10 мм			92.0	46.0	49.5								
BV1-FBT4-06-3-	Внутренняя резьба R 1/4" BSPT			76.8	38.4	41.9								
BV1-FBP4-06-3-	Внутренняя резьба G 1/4" BSPP													
BV1-FNPT4-06-3-	Внутренняя резьба 1/4" NPT													
BV1-MBT4-06-3-	Внешняя резьба R 1/4" BSPT			82.2	41.1	44.7								
BV1-MBP4-06-3-	Внешняя резьба G 1/4" BSPP													
BV1-NPT4-06-3-	Внешняя резьба 1/4" NPT													
BV1-MBT6-06-3-	Внешняя резьба R 3/8" BSPT													
BV1-MBP6-06-3-	Внешняя резьба G 3/8" BSPP													
BV1-NPT6-06-3-	Внешняя резьба 3/8" NPT													



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Seat	PCTFE
3	Ball	316 S.S./ASTM A479
4	O-Ring	Silicon
5	O-Ring	Silicon
6	Retainer Seal	PTFE/ASTM D1710
7	Connector	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Gland	316 S.S./ASTM A479
10	Packing	PTFE/ASTM D1710
11	Stem	316 S.S./ASTM A479
12	Packing Nut	316 S.S./ASTM A479
13	Panel Nut	316 S.S./ASTM A479
14	Handle	ADC12/JIS H5302
15	Screw	Galvanized steel

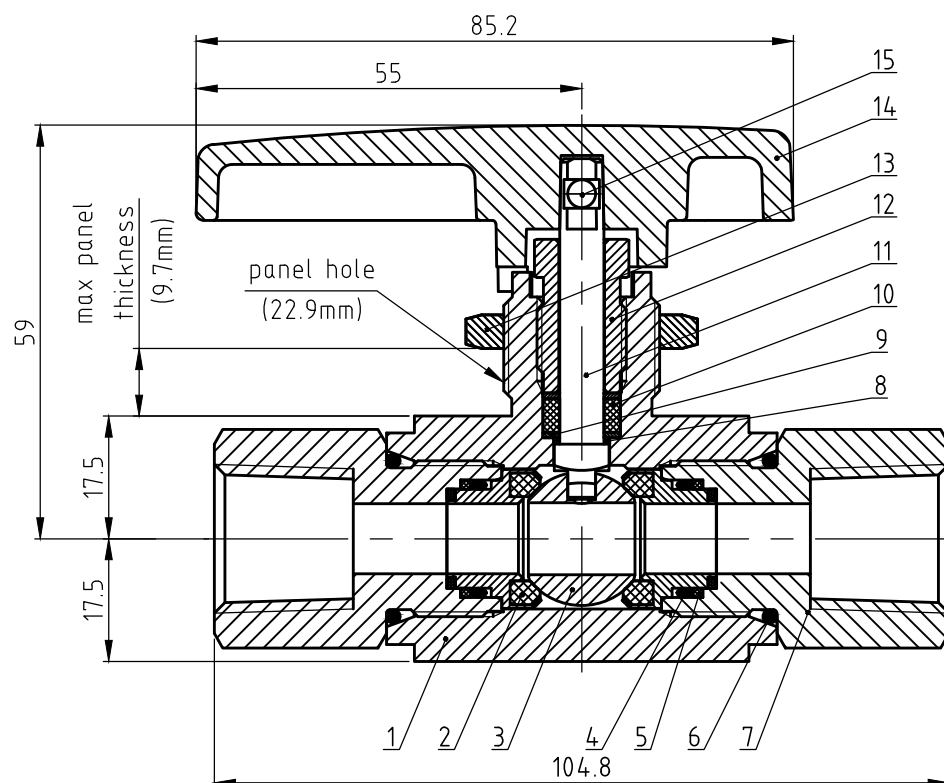
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2NPT(F)
Outlet1 Size	1/2NPT(F)
Outlet2 Size	1/2NPT(F)
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000 (413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Jun.04.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-FNPT8-K10-3-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Seat	PCTFE
3	Ball	316 S.S./ASTM A479
4	O-Ring	Silicon Rubber
5	Retainer Seal	PTFE/ASTM D1710
6	O-Ring	Silicon Rubber
7	Connector	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Gland	316 S.S./ASTM A479
10	Packing	PTFE/ASTM D1710
11	Stem	316 S.S./ASTM A479
12	Packing Nut	316 S.S./ASTM A479
13	Panel Nut	316 S.S./ASTM A479
14	Handle	ADC12/JIS H5302
15	Screw	Galvanized steel

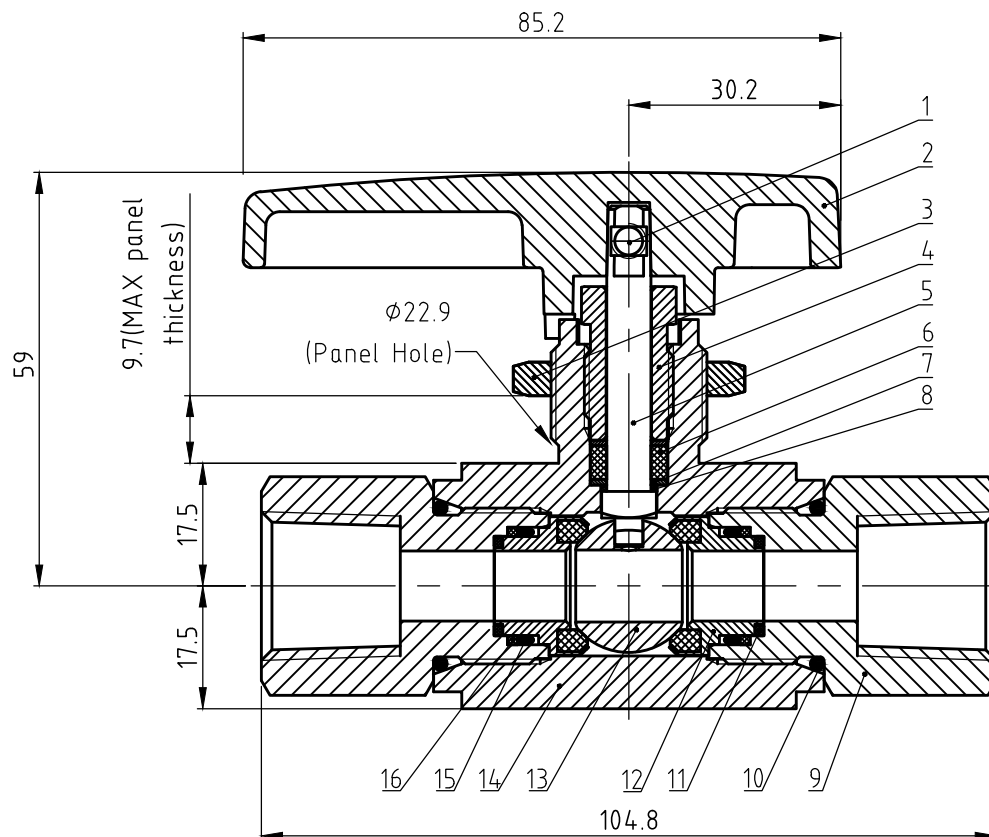
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2NPT(F)
Outlet Size	1/2NPT(F)
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000 (413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Jul.31.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-FNPT8-K10-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Nut	630 S.S./ASTM B783
4	Packing Nut	316 S.S./ASTM A479
5	Stem	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Connector	316 S.S./ASTM A479
10	O-ring	FKM
11	Gland	PTFE/ASTM D1710
12	Seat Assy.	PEEK+316 S.S.
13	Ball	316 S.S./ASTM A479
14	Body	316 S.S./ASTM A182
15	O-ring	FKM
16	Retaining Ring	PTFE/ASTM D1710

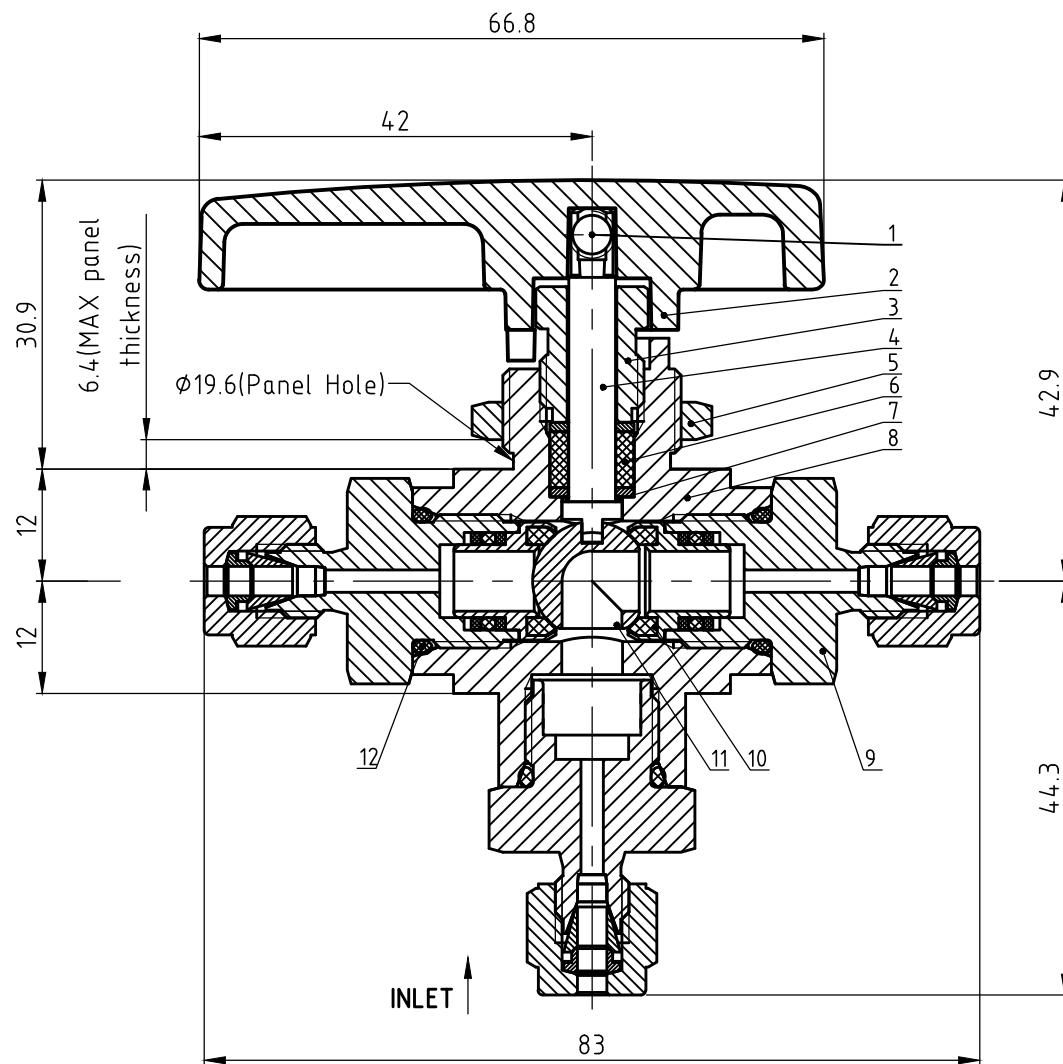
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2 NPT (F)
Outlet Size	1/2 NPT (F)
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-54) to 100 (37)	6000 (413)		
200 (93)	5000 (344)		
300 (148)	3200 (220)		
400 (204)	1400 (96)		
450 (232)	500 (34)		

A	Nov.10, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-FNPT8-P10-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

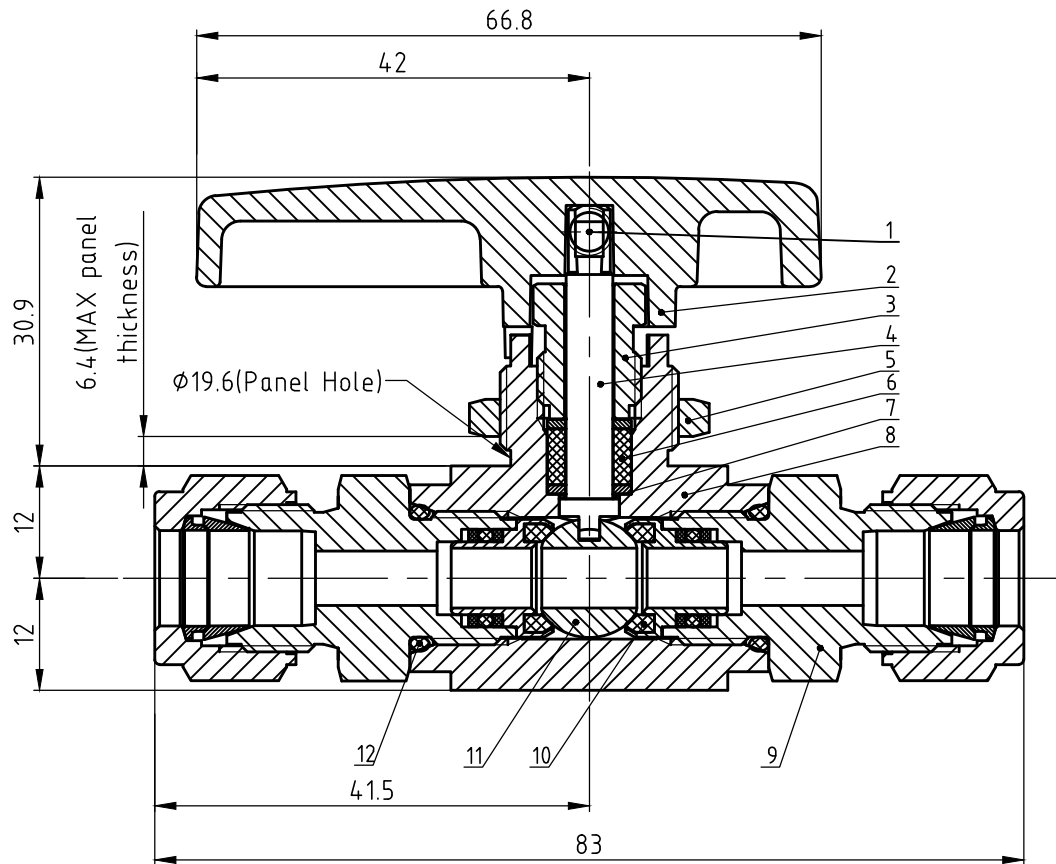
Technical Data:

Orifice Size	6.4
Inlet Size	O.D. $\phi 3$
Outlet Size	O.D. $\phi 3$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Sep.09, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	BALL VALVE		
		Model	BV1-M3-P06-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

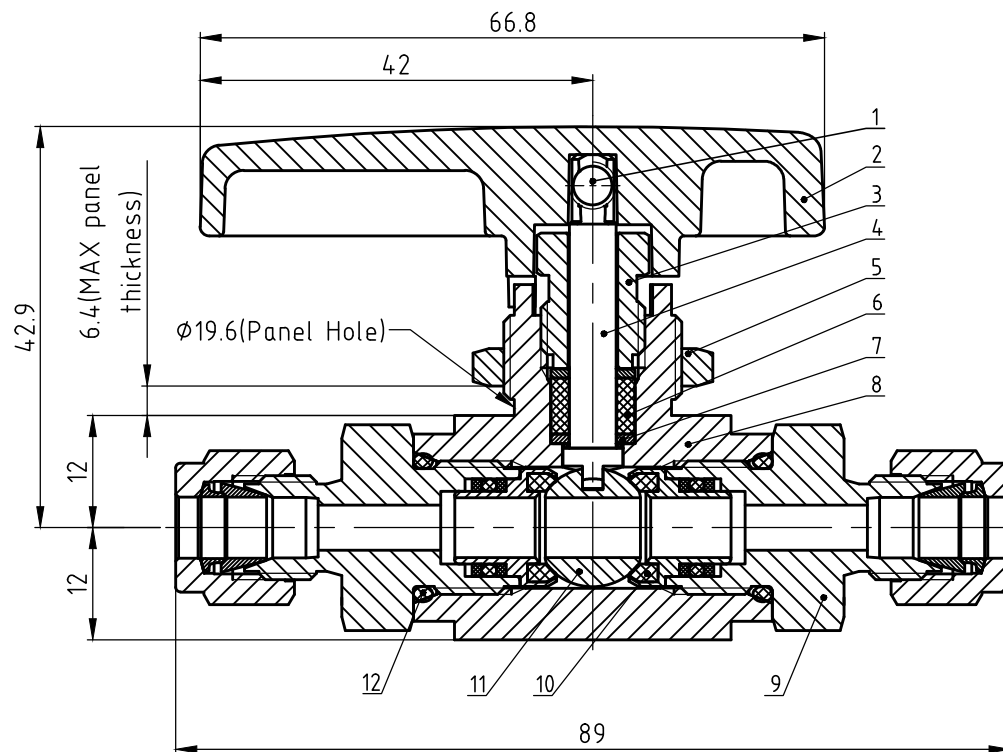
Technical Data:

Orifice Size	6.4
Inlet Size	O.D. $\phi 3$
Outlet Size	O.D. $\phi 3$

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Sep.09, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	BALL VALVE		
		Model	BV1-M3-P06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PCTFE
11	Ball	316 S.S./ASTM A182
12	O-ring	Silicon Rubber

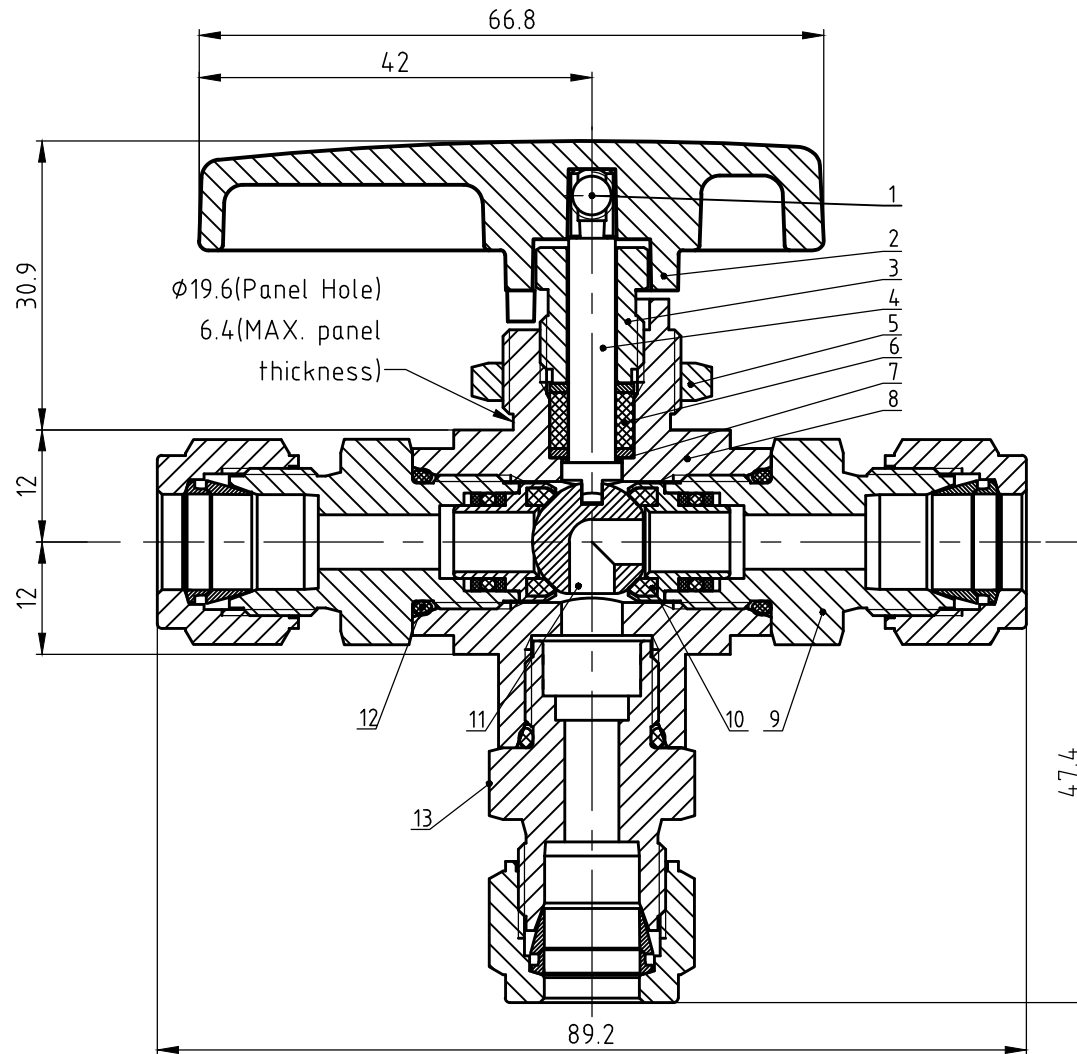
Technical Data:

Orifice Size	6.4mm
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)
-76 (-60) to 100 (37)	6000(413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Apr.06, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-M6-K06-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	316 S.S./ASTM A479
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM
13	Connector	316 S.S./ASTM A479

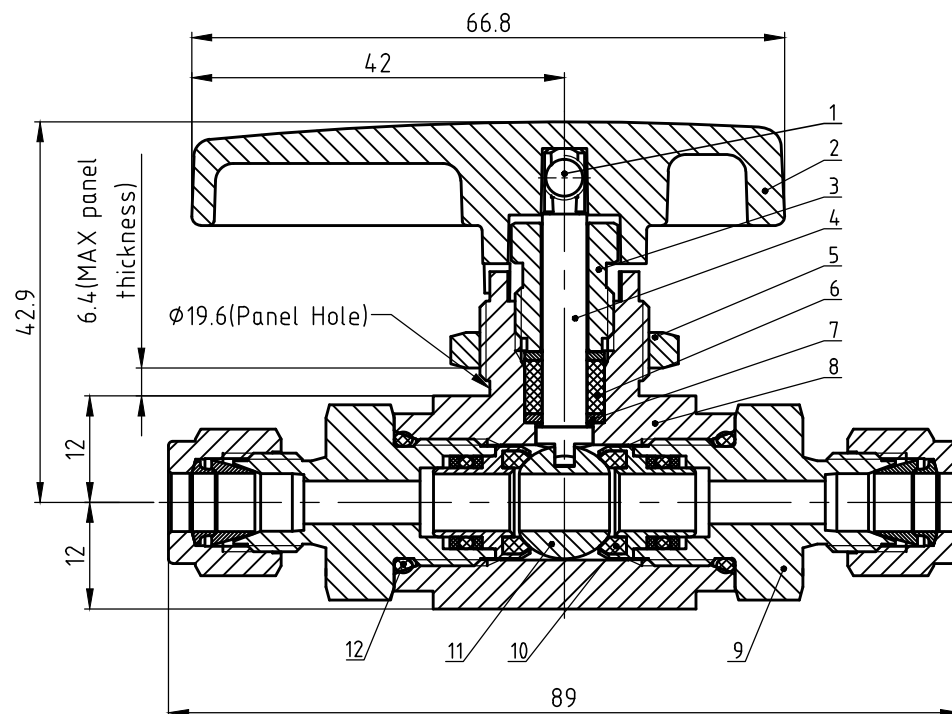
Technical Data:

Orifice Size	6.4mm
Inlet Size	O.D. $\phi 6$
Outlet Size	O.D. $\phi 6$
Cv	2.34

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Jul.26, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	BALL VALVE		
		Model	BV1-M6-P06-3-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

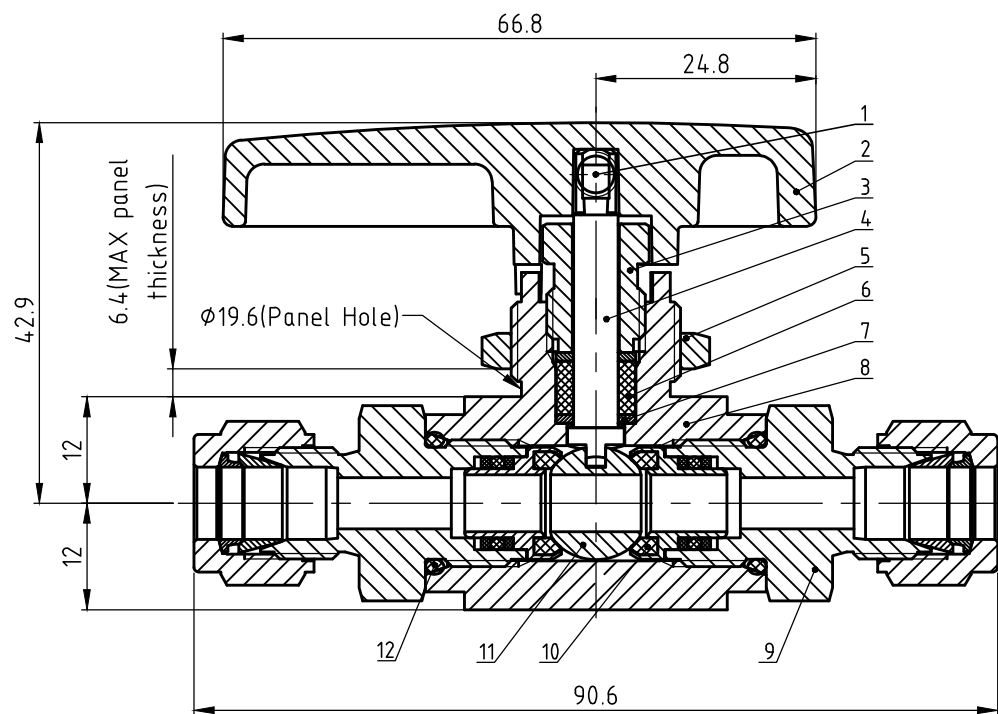
Technical Data:

Orifice Size	6.4mm
Inlet Size	O.D. Ø6
Outlet Size	O.D. Ø6

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	500(34)		

A	Nov.08, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-M6-P06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Screw	304 S.S.
2	Handle	ADC12/JIS H5302
3	Packing Nut	316 S.S./ASTM A479
4	Stem	316 S.S./ASTM A479
5	Panel Nut	630 S.S./ASTM B783
6	Packing	PTFE/ASTM D1710
7	Gland	316 S.S./ASTM A479
8	Body	316 S.S./ASTM A182
9	Connector	316 S.S./ASTM A479
10	Seat	PEEK
11	Ball	316 S.S./ASTM A182
12	O-ring	FKM

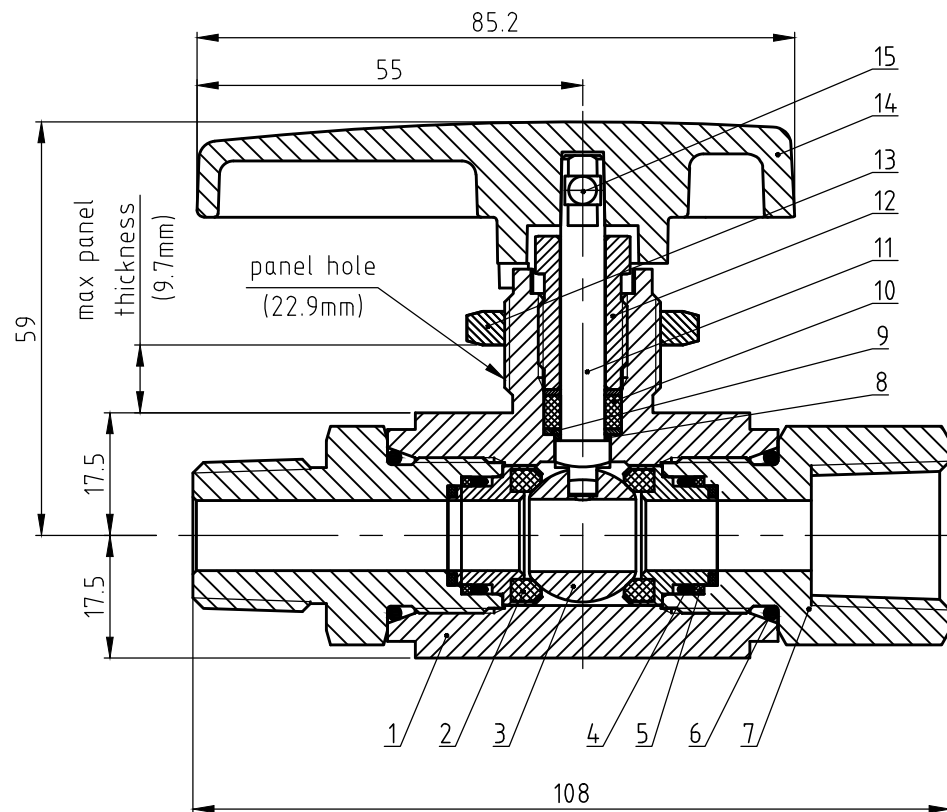
Technical Data:

Orifice Size	6.4mm
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)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	1400(96)		
450 (232)	100(6.9)		

A	Jun.17.2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valves		
		Model	BV1-M8-P06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Seat	PCTFE
3	Ball	316 S.S./ASTM A479
4	O-Ring	Silicon
5	Retainer Seal	PTFE/ASTM D1710
6	O-Ring	Silicon
7	Connector	316 S.S./ASTM A479
8	Bearing	PTFE/ASTM D1710
9	Gland	316 S.S./ASTM A479
10	Packing	PTFE/ASTM D1710
11	Stem	316 S.S./ASTM A479
12	Packing Nut	316 S.S./ASTM A479
13	Panel Nut	316 S.S./ASTM A479
14	Handle	ADC12/JIS H5302
15	Screw	Galvanized steel

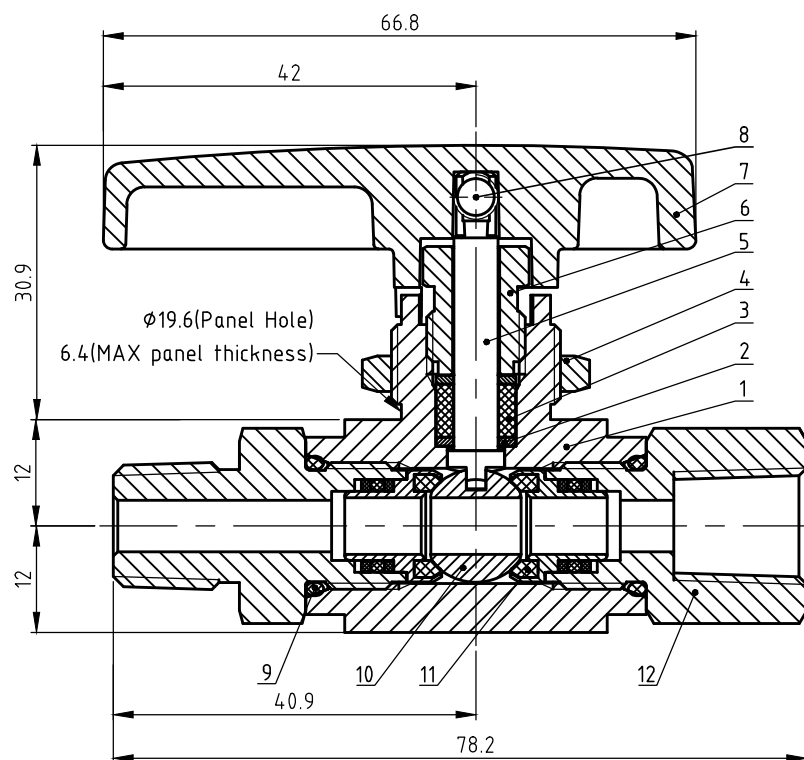
Technical Data:

Orifice Size	10.3mm
Inlet Size	1/2NPT
Outlet Size	1/2NPT(F)
Cv	6.42

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-76 (-60) to 100 (37)	6000 (413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Jun.04.2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-NPT8-FNPT8-K10-316-LT		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Body	316 S.S./ASTM A182
2	Gland	316 S.S./ASTM A479
3	Packing	PTFE/ASTM D1710
4	Panel Nut	630 S.S./ASTM B783
5	Stem	316 S.S./ASTM A479
6	Packing Nut	316 S.S./ASTM A479
7	Handle	ADC12/JIS H5302
8	Screw	304 S.S.
9	O-Ring	FKM
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connector	316 S.S./ASTM A479

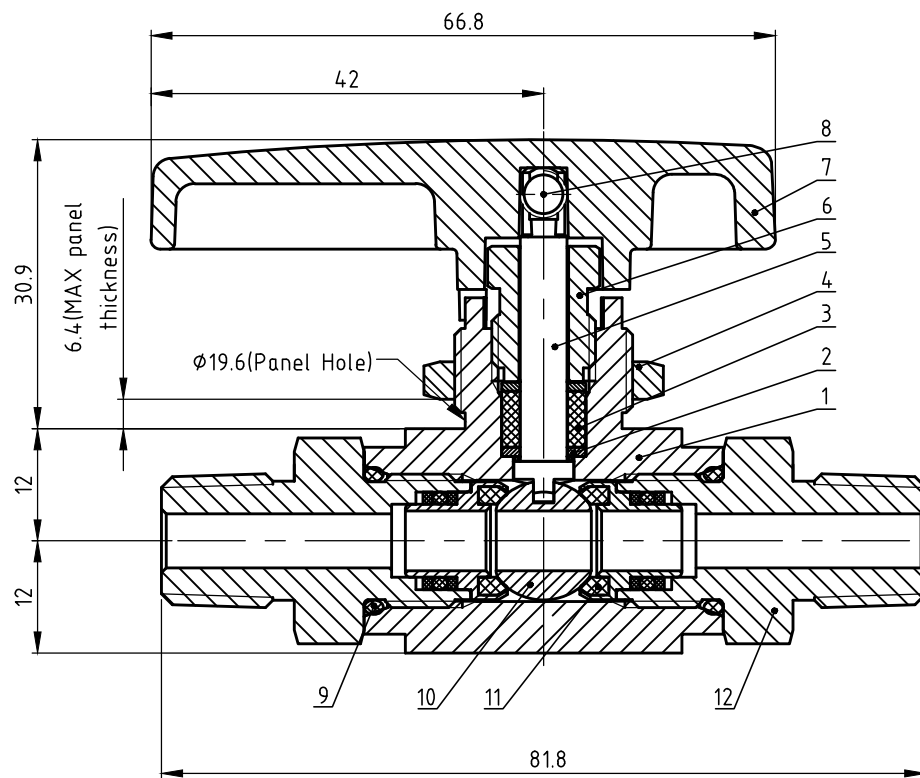
Technical Data:

Orifice Size	6.4 mm
Inlet Size	1/4 NPT
Outlet Size	1/4 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)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	600(41)		
450 (232)	200(13)		

A	Aug.04, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-NPT4-FNPT4-P06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Body	316 S.S./ASTM A182
2	Gland	316 S.S./ASTM A479
3	Packing	PTFE/ASTM D1710
4	Panel Nut	630 S.S./ASTM B783
5	Stem	316 S.S./ASTM A479
6	Packing Nut	316 S.S./ASTM A479
7	Handle	ADC12/JIS H5302
8	Screw	304 S.S.
9	O-Ring	FKM
10	Ball	316 S.S./ASTM A479
11	Seat	PCTFE
12	Connector	316 S.S./ASTM A479

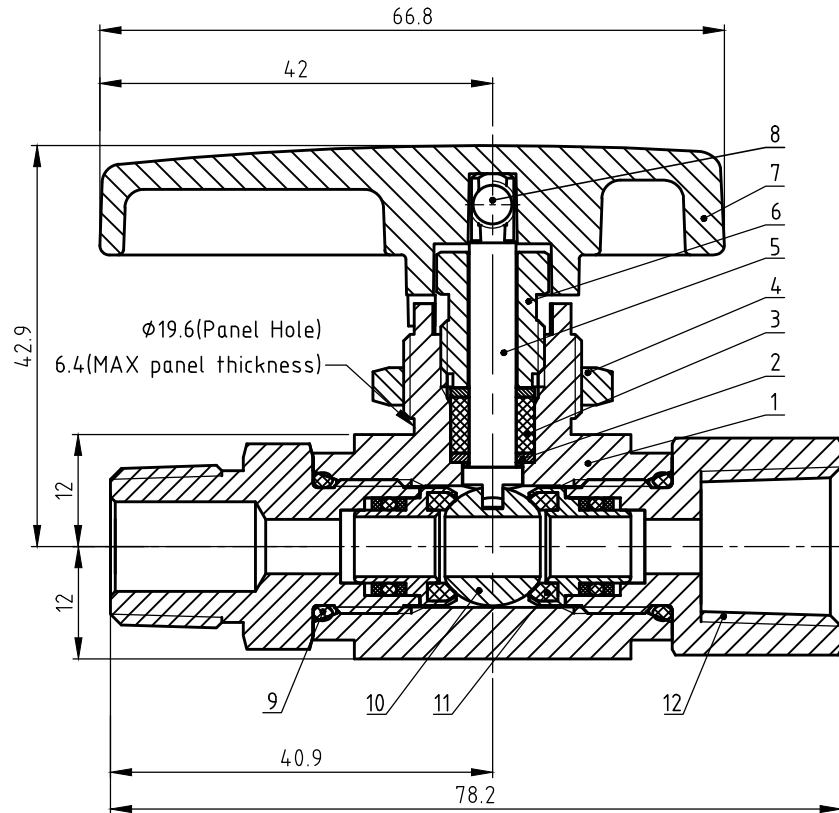
Technical Data:

Orifice Size	6.4 mm
Inlet Size	1/4 NPT
Outlet Size	1/4 NPT

Pressure vs. Temperature Ratings:

Temperature °F (°C)	Working Pressure psig (bar)	Temperature °F (°C)	Working Pressure psig (bar)
-65 (-53) to 100 (37)	6000(413)		
200 (93)	3600(248)		
300 (148)	1200(82)		
350 (176)	50(3)		

A	Jul.26, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-NPT4-K06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



No.	Component	Material Grade
1	Body	316 S.S./ASTM A182
2	Gland	316 S.S./ASTM A479
3	Packing	PTFE/ASTM D1710
4	Panel Nut	630 S.S./ASTM B783
5	Stem	316 S.S./ASTM A479
6	Packing Nut	316 S.S./ASTM A479
7	Handle	ADC12/JIS H5302
8	Screw	304 S.S.
9	O-Ring	FKM
10	Ball	316 S.S./ASTM A479
11	Seat	PEEK
12	Connector	316 S.S./ASTM A479

Technical Data:

Orifice Size	6.4 mm
Inlet Size	3/8 NPT
Outlet Size	3/8 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)	6000(413)		
200 (93)	5000(344)		
300 (148)	3200(220)		
400 (204)	600(41)		
450 (232)	200(13)		

A	Sep.20, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Ball Valve		
		Model	BV1-NPT6-FNPT6-P06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		