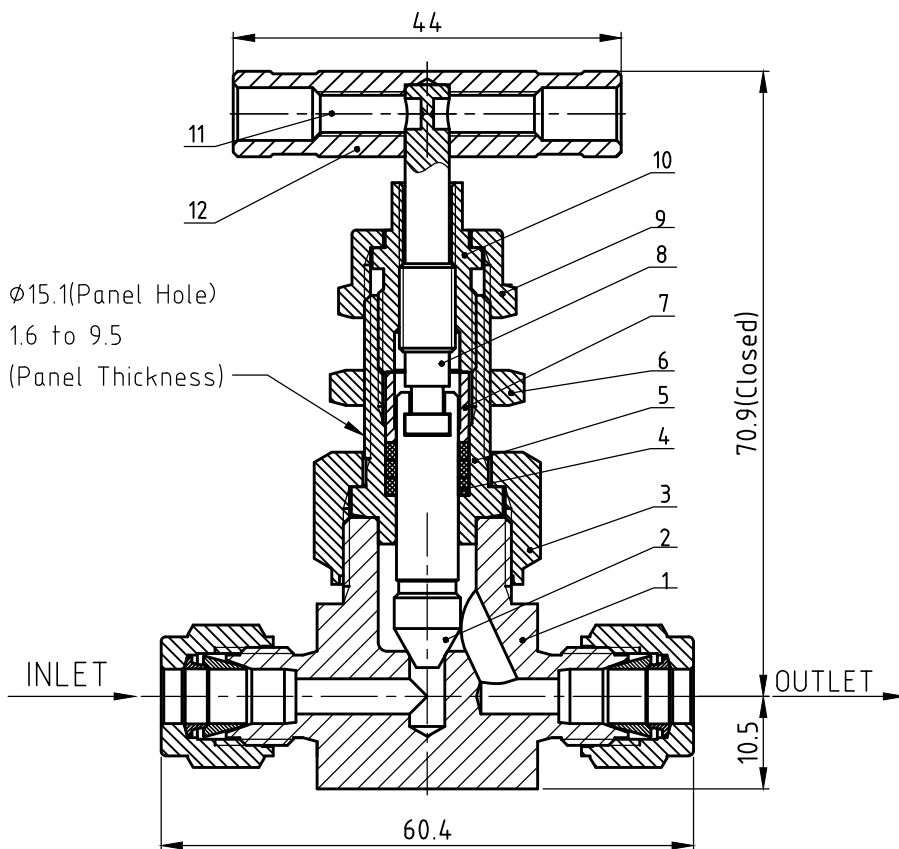




Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A479
7	Lock Nut	630 S.S./ASTM B783
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

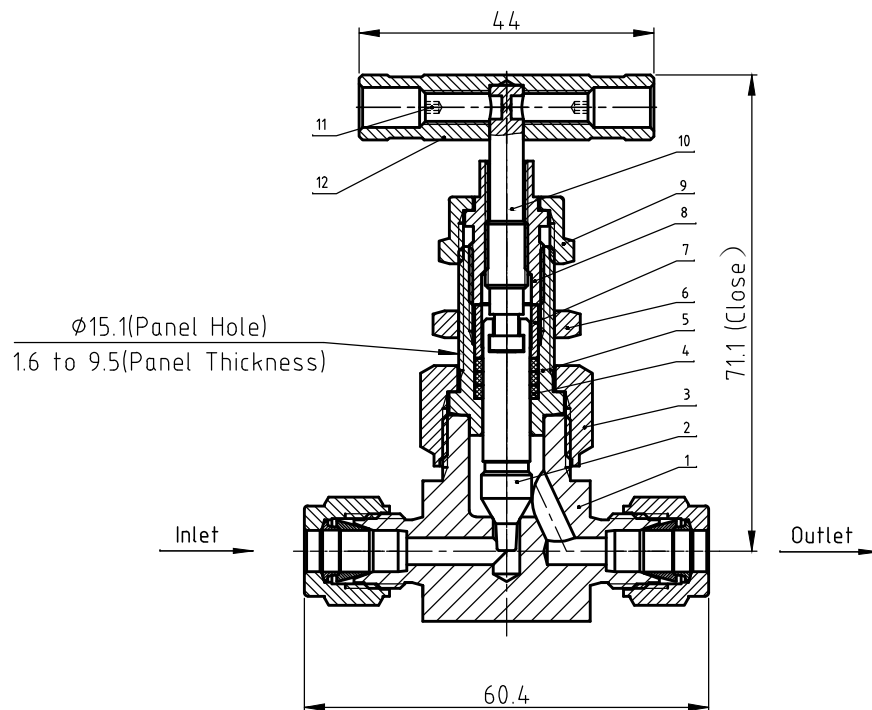
Technical Data:

Orifice Size	4.0
Inlet Size	O.D. $\phi 6$
Outlet Size	O.D. $\phi 6$
Cv	0.35

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (260)	4130 (284)		

A	Jun.29,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-M6-04-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Packing	PTFE/ASTM D1710
5	Bonnet	316 S.S./ASTM A479
6	Lock Nut	630 S.S./ASTM B783
7	Gland	316 S.S./ASTM A479
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

Technical Data:

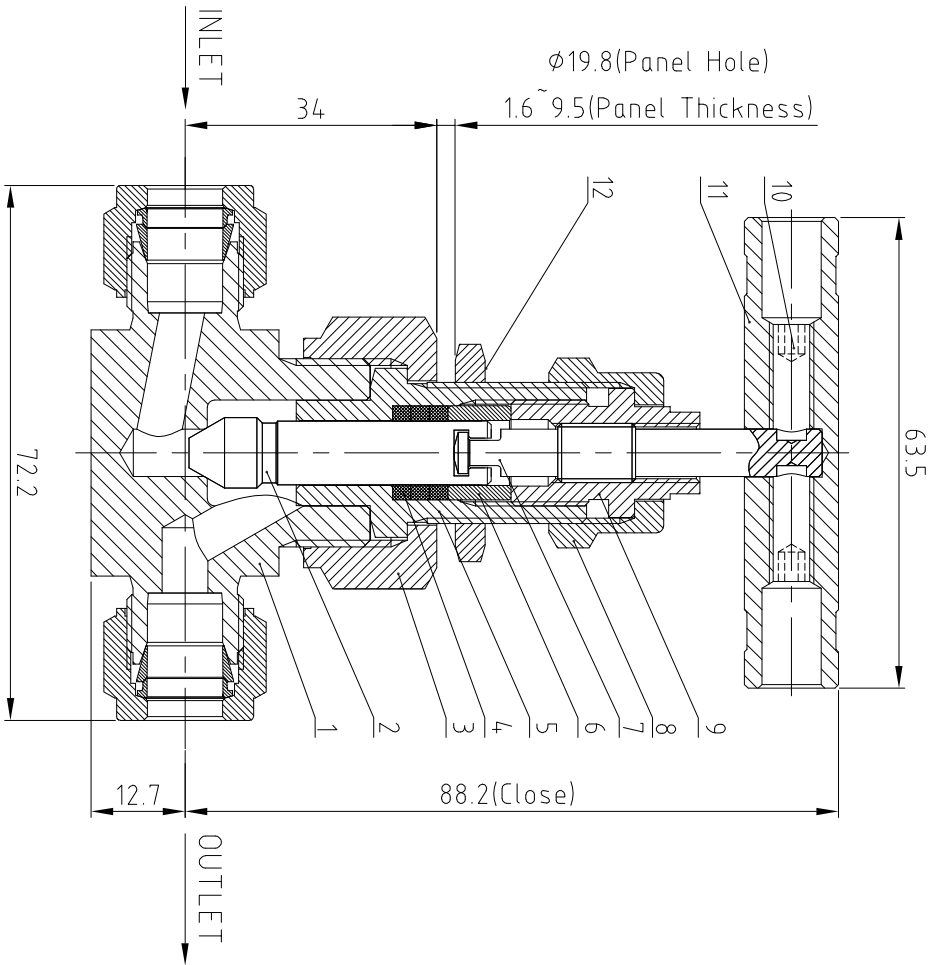
Orifice Size	4.0mm
Inlet Size	O.D. $\phi 6$
Outlet Size	O.D. $\phi 6$
Cv	0.35

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (232)	4130 (284)		

A	Mar.04,2025				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-M6-04R-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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Packing	PTFE/ASTM D1710
5	Bonnet	316 S.S./ASTM A479
6	Gland	316 S.S./ASTM A276
7	Upper Stem	316 S.S./ASTM A479
8	Lock Nut	316 S.S./ASTM A276
9	Packing Nut	316 S.S./ASTM A276
10	Screw	Galvanized steel
11	Handle	6061/ASTM B211
12	Panel Nut	630 S.S./ASTM B783



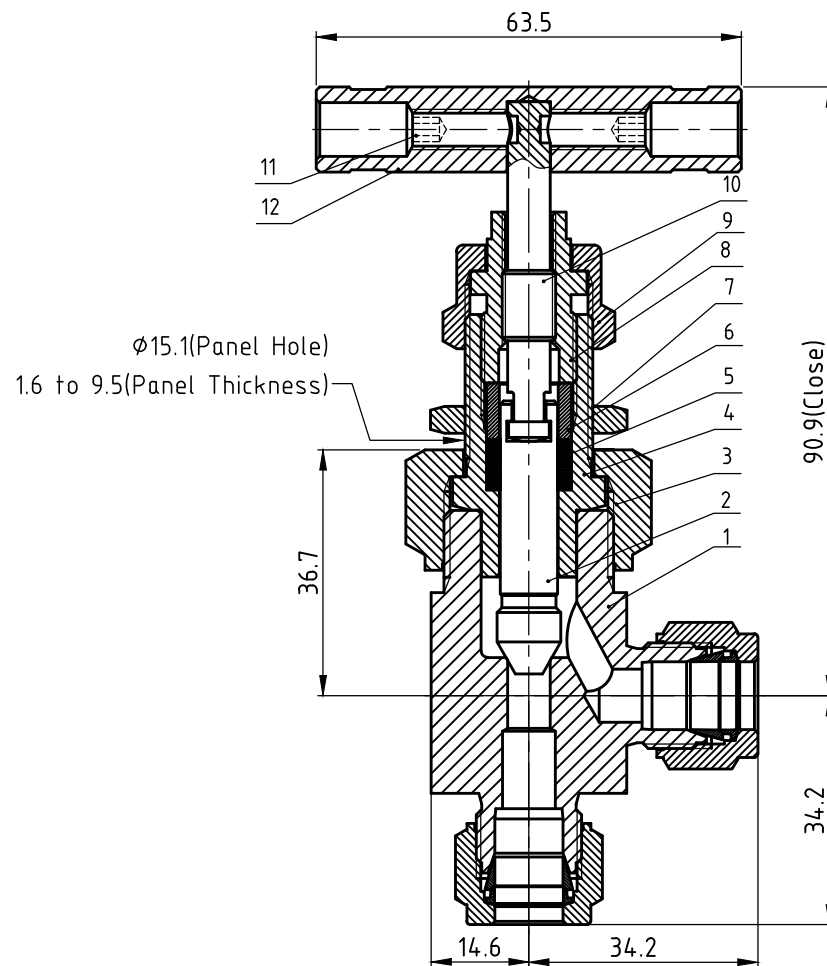
Technical Data:

Orifice Size	6mm
Inlet Size	0.D.Ø10
Outlet Size	0.D.Ø10
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (295)		
450 (232)	4130 (284)		

A	Feb.22, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-M10-06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A479
7	Lock Nut	630 S.S./ASTM B783
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

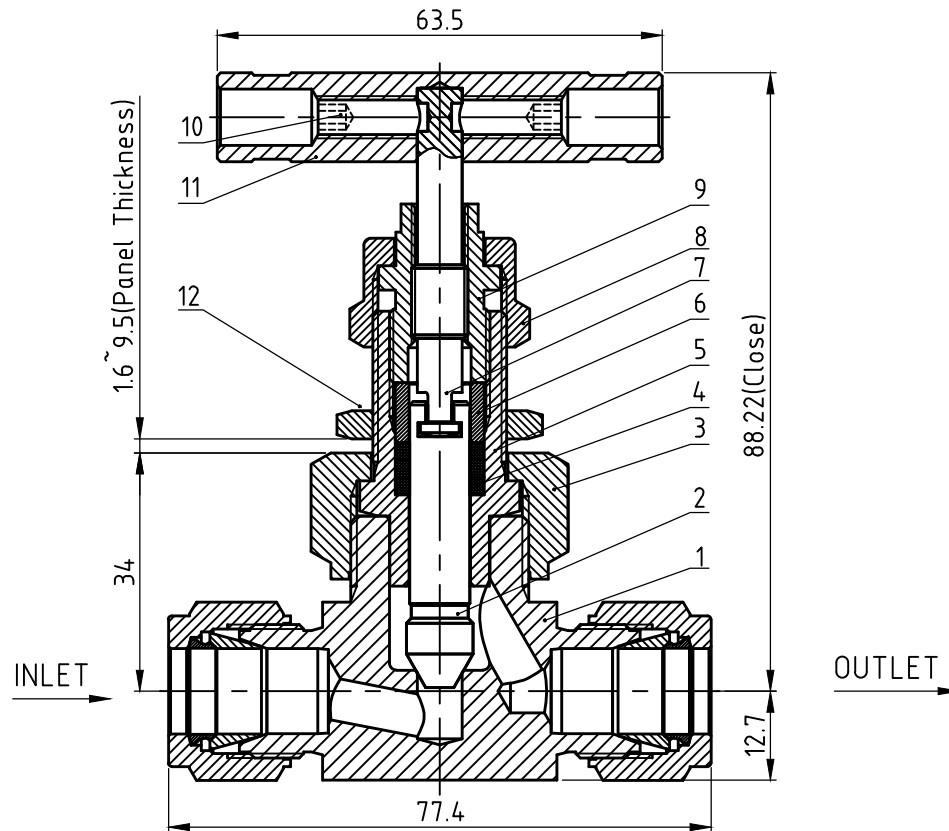
Technical Data:

Orifice Size	6.0mm
Inlet Size	O.D. ϕ 10
Outlet Size	O.D. ϕ 10
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (232)	4130 (284)		

A	Sep.25,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-M10-06-A1-316		
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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Packing	PTFE/ASTM D1710
5	Bonnet	316 S.S./ASTM A479
6	Gland	316 S.S./ASTM A276
7	Upper Stem	316 S.S./ASTM A479
8	Lock Nut	316 S.S./ASTM A276
9	Packing Nut	316 S.S./ASTM A276
10	Screw	Galvanized steel
11	Handle	6061/ASTM B211
12	Panel Nut	630 S.S./ASTM B783

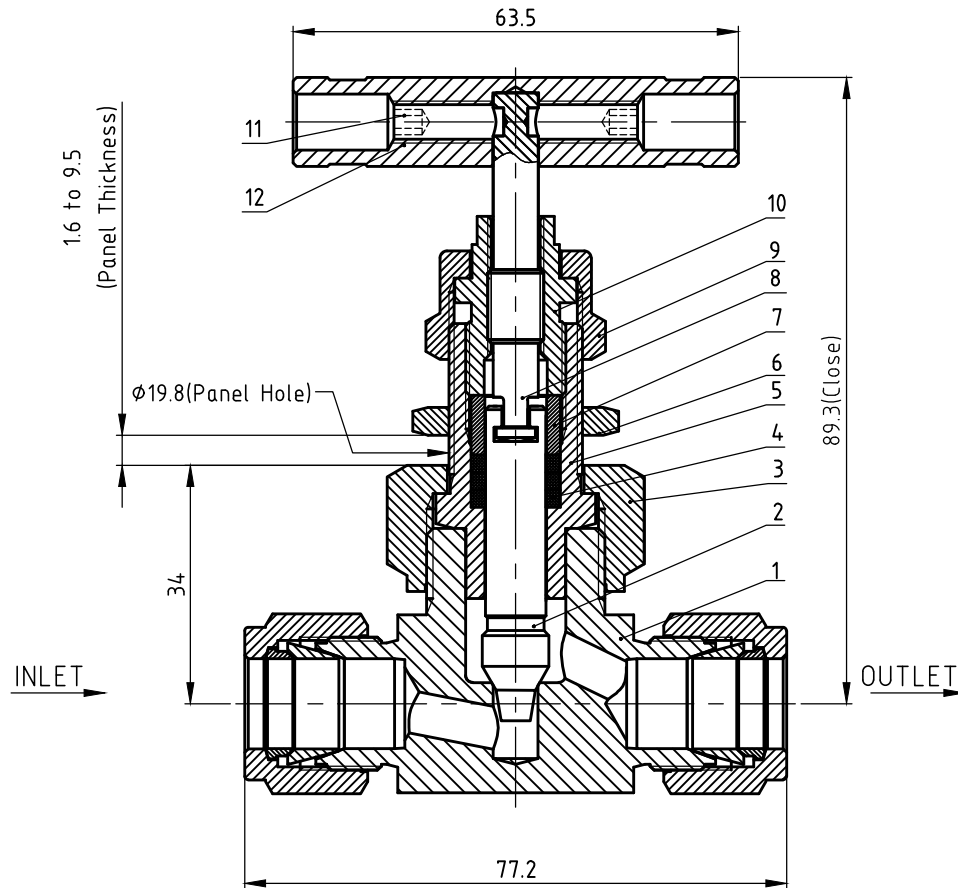
Technical Data:

Orifice Size	6mm
Inlet Size	O.D.Ø12
Outlet Size	O.D.Ø12
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (295)		
450 (232)	4130 (284)		

A	Jan.11, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-M12-06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A479
7	Lock Nut	630 S.S./ASTM B783
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

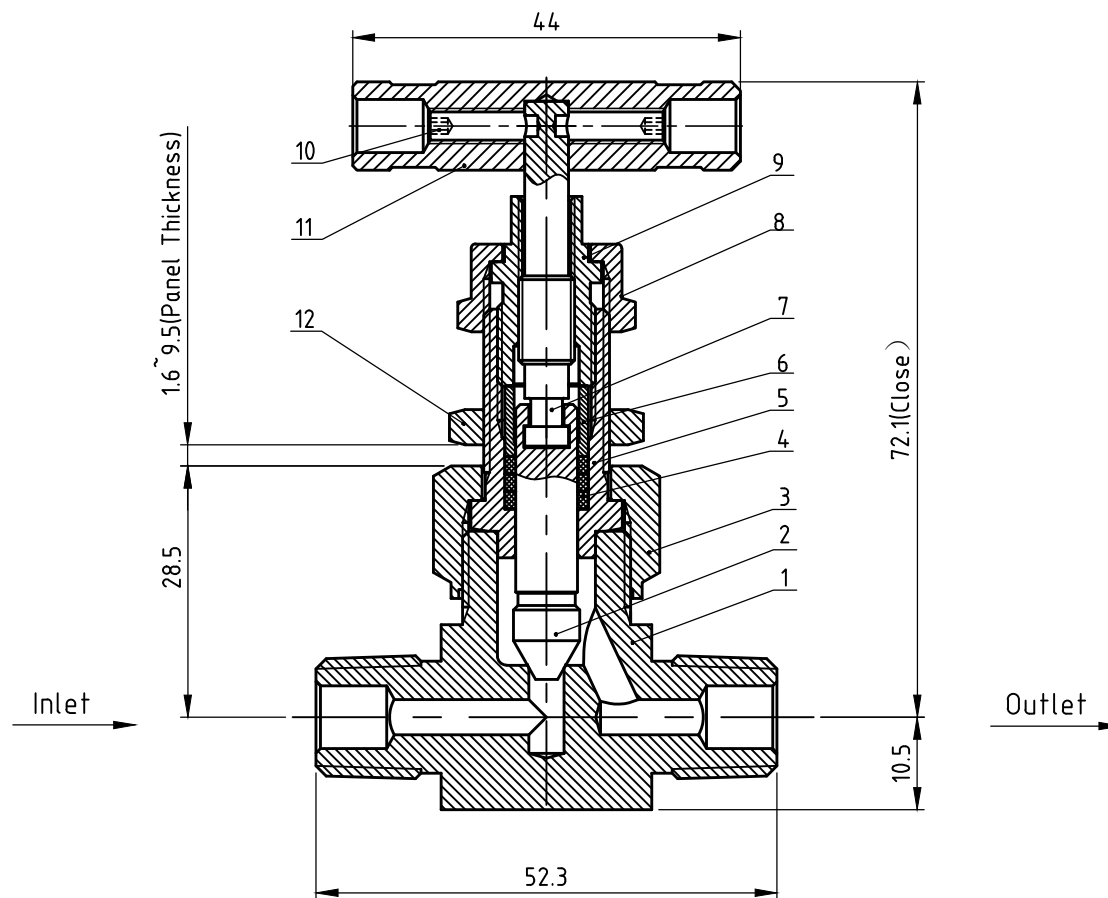
Technical Data:

Orifice Size	6.4mm
Inlet Size	O.D. Ø12
Outlet Size	O.D. Ø12
Cv	0.86

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)	5160(355)		
300 (148)	4660(321)		
400 (204)	4280(294)		
450 (232)	4130(284)		

A	Jul.27, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	NEEDLE VALVE		
		Model	NV3-M12-06R-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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Packing	Graphite
5	Bonnet	316 S.S./ASTM A479
6	Gland	316 S.S./ASTM A276
7	Upper Stem	316 S.S./ASTM A479
8	Lock Nut	316 S.S./ASTM A276
9	Packing Nut	316 S.S./ASTM A276
10	Screw	Galvanized steel
11	Handle	6061/ASTM B211
12	Panel Nut	630 S.S./ASTM B783

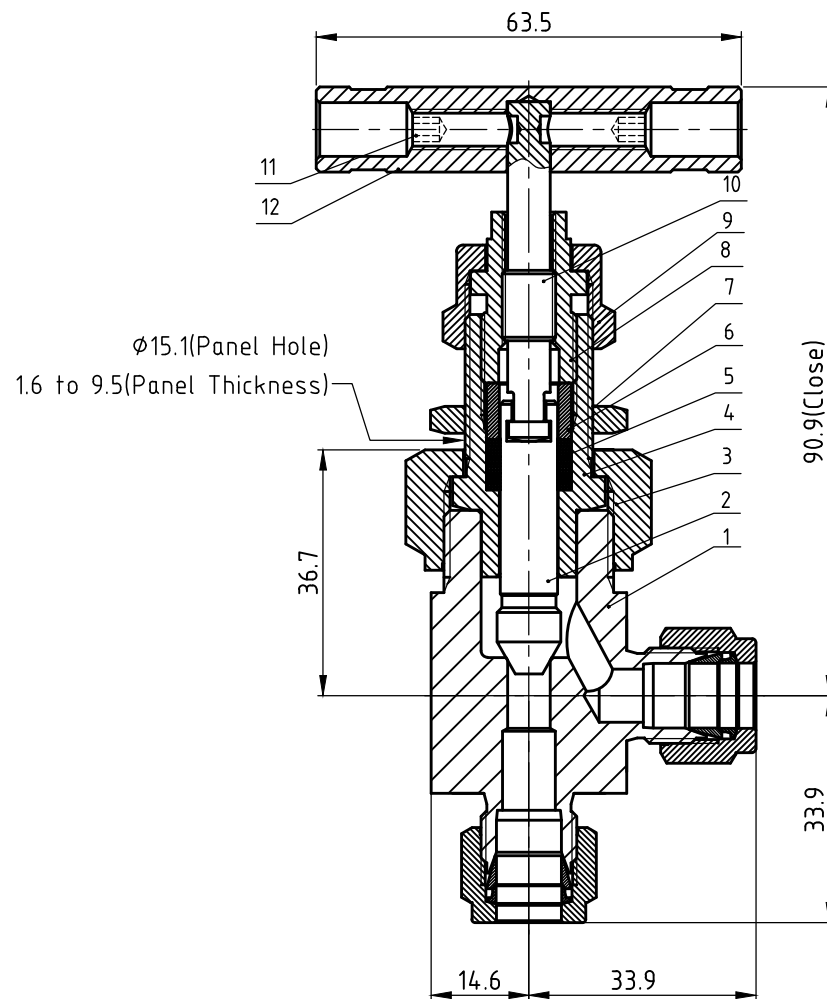
Technical Data:

Orifice Size	4mm
Inlet Size	1/4 NPT
Outlet Size	1/4 NPT
Cv	0.35

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)	700 (371)	3620 (250)
200 (93)	5160 (355)	800 (426)	3520 (243)
300 (148)	4660 (322)	900 (482)	3460 (239)
400 (204)	4280 (293)	1000 (537)	3030 (209)
500 (260)	3980 (283)	1100 (593)	2545 (175)
600 (315)	3760 (259)	1200 (648)	1545 (107)

A	Apr.13, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-NPT4-04-G-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	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A479
7	Lock Nut	630 S.S./ASTM B783
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

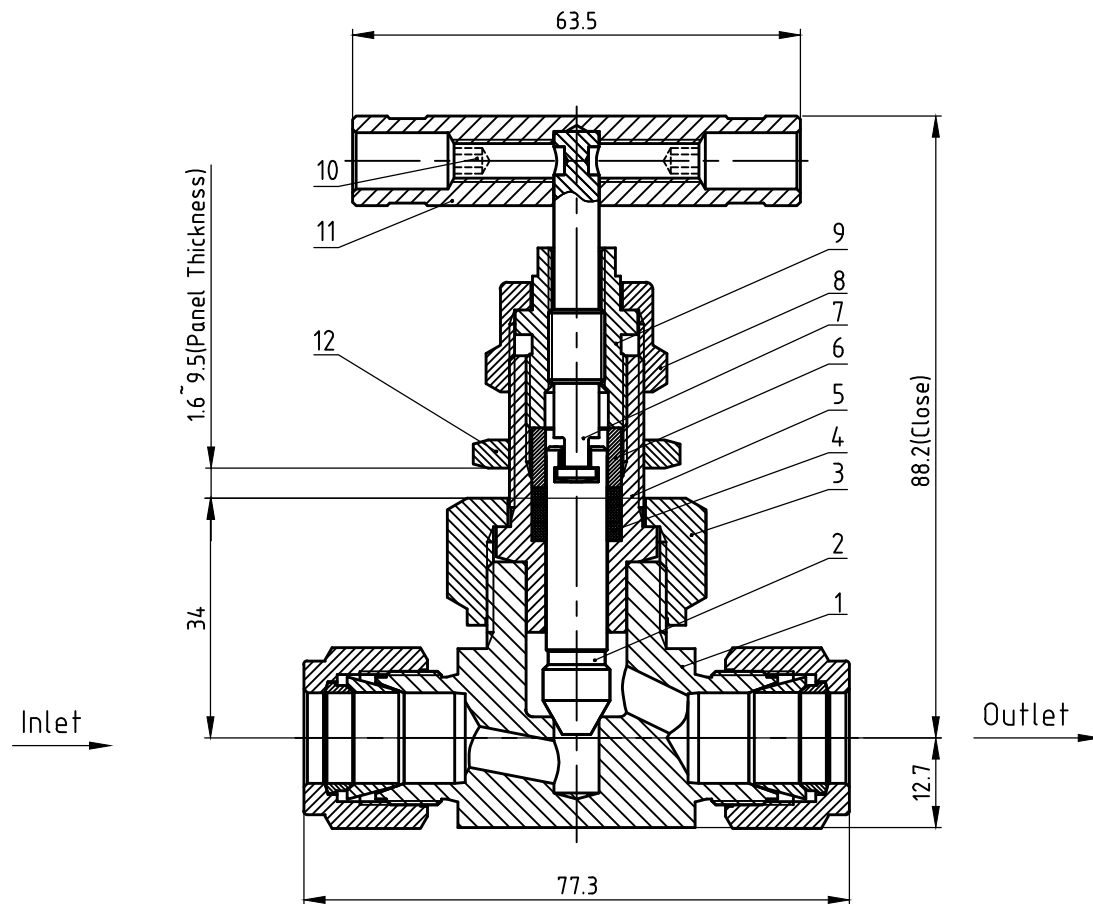
Technical Data:

Orifice Size	6.0mm
Inlet Size	O.D. $\phi 3/8''$
Outlet Size	O.D. $\phi 3/8''$
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (232)	4130 (284)		

A	Sep.25,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-F6-06-A1-316		
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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Packing	PTFE/ASTM D1710
5	Bonnet	316 S.S./ASTM A479
6	Gland	316 S.S./ASTM A276
7	Upper Stem	316 S.S./ASTM A479
8	Lock Nut	316 S.S./ASTM A276
9	Packing Nut	316 S.S./ASTM A276
10	Screw	Galvanized steel
11	Handle	6061/ASTM B211
12	Panel Nut	630 S.S./ASTM B783

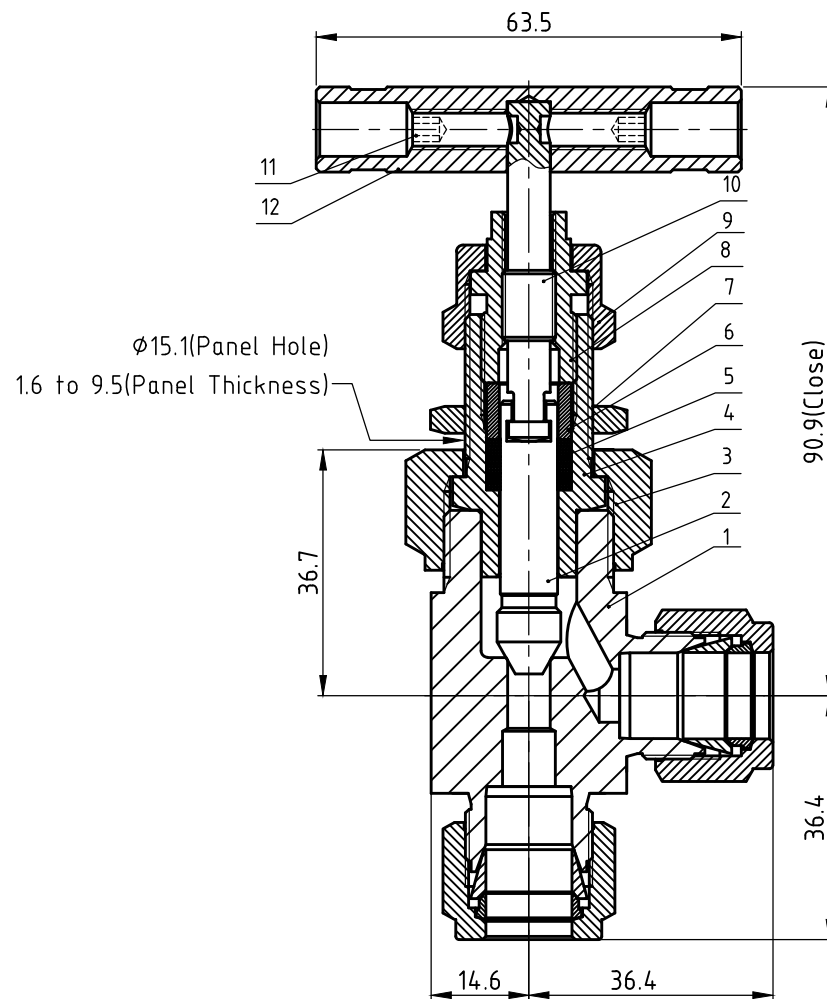
Technical Data:

Orifice Size	6mm
Inlet Size	O.D.Ø1/2"
Outlet Size	O.D.Ø1/2"
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (295)		
450 (232)	4130 (284)		

B	Apr.02, 2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-F8-06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A479
7	Lock Nut	630 S.S./ASTM B783
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

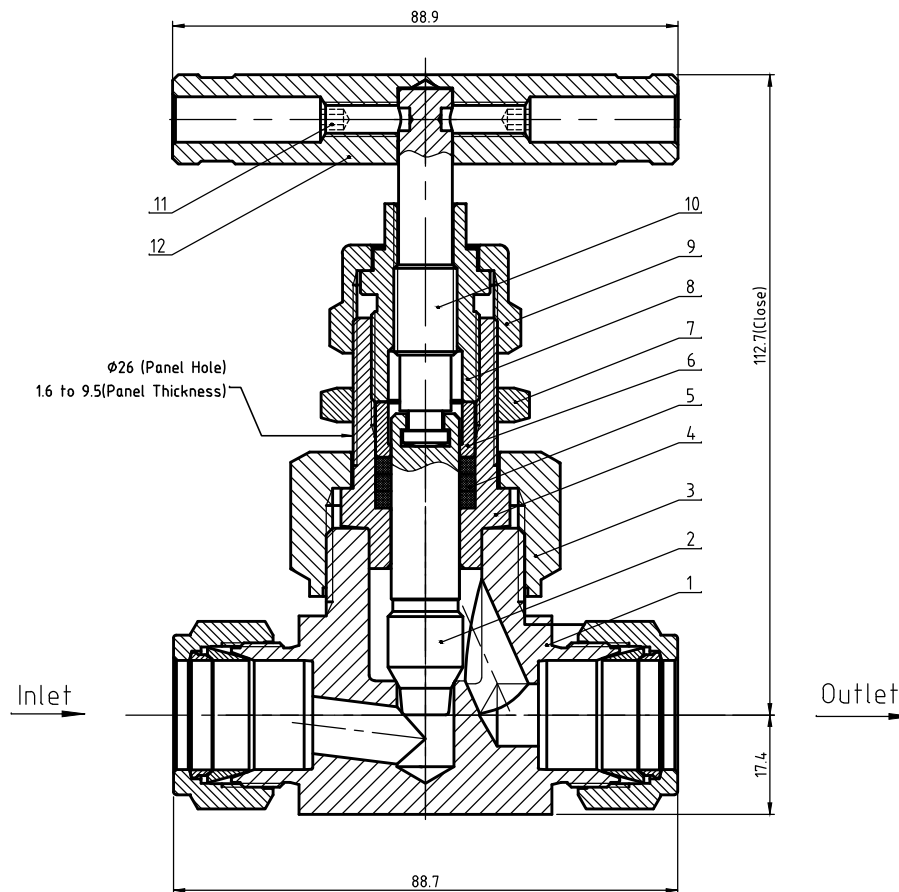
Technical Data:

Orifice Size	6.0mm
Inlet Size	O.D. $\phi 1/2''$
Outlet Size	O.D. $\phi 1/2''$
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (232)	4130 (284)		

A	Sep.25,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-F8-06-A1-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Component		Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Union Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PFA
6	Gland	316 S.S./ASTM A479
7	Lock Nut	630 S.S./ASTM B783
8	Packing Bolt	316 S.S./ASTM A479
9	Lock Nut	316 S.S./ASTM A479
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

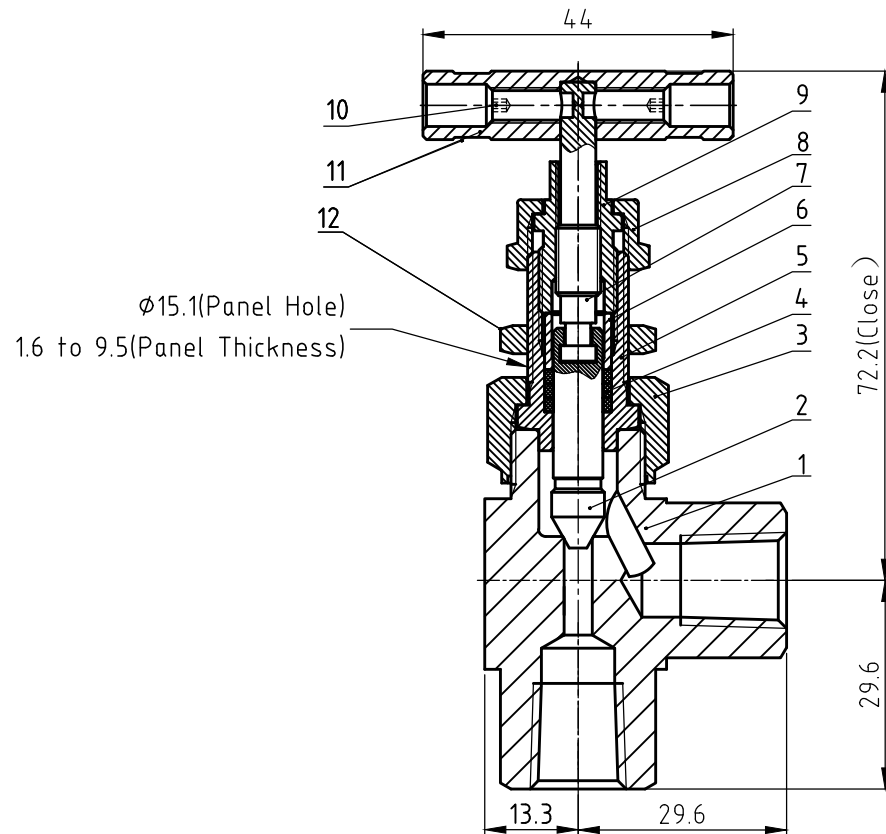
Technical Data:

Orifice Size	11mm
Inlet Size	O.D. $\phi 3/4"$
Outlet Size	O.D. $\phi 3/4"$
Cv	1.8

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (232)	4130 (284)		

A	Jul.18,2024				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-F12-11R-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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Packing	PTFE/ASTM D1710
5	Bonnet	316 S.S./ASTM A479
6	Gland	316 S.S./ASTM A276
7	Upper Stem	316 S.S./ASTM A479
8	Lock Nut	316 S.S./ASTM A276
9	Packing Nut	316 S.S./ASTM A276
10	Screw	Galvanized steel
11	Handle	6061/ASTM B211
12	Panel Nut	630 S.S./ASTM B783

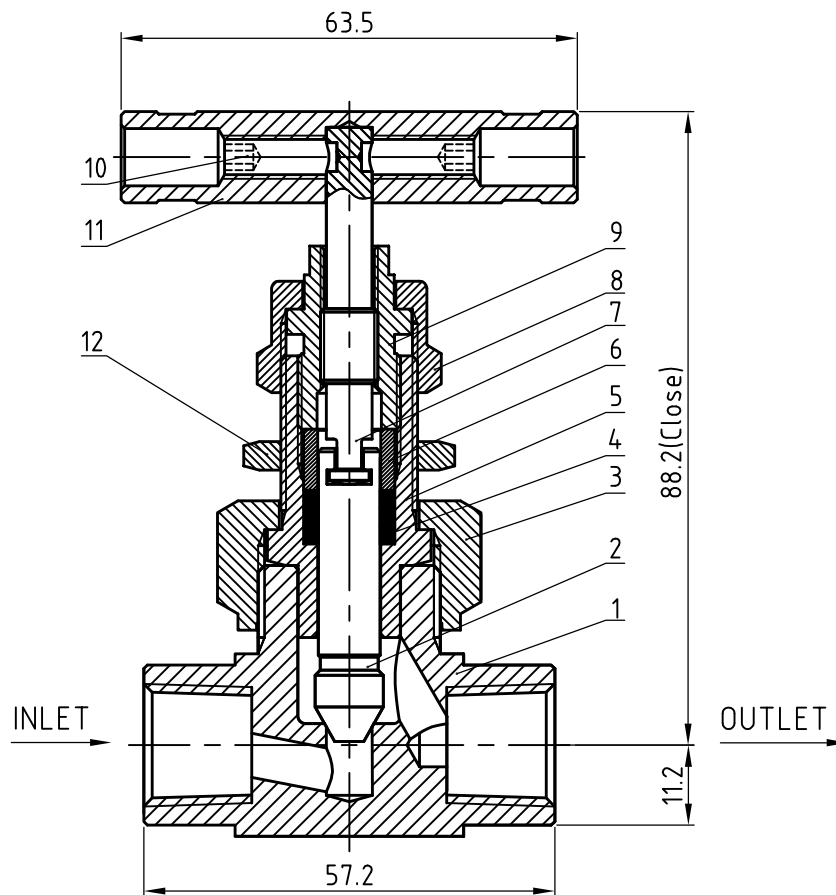
Technical Data:

Orifice Size	4.0mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	0.35

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)	5160 (355)		
300 (148)	4660 (321)		
400 (204)	4280 (294)		
450 (232)	4130 (284)		

A	Oct.09,2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-FNPT4-04-A1-316		
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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Packing	PTFE/ASTM D1710
5	Bonnet	316 S.S./ASTM A479
6	Gland	316 S.S./ASTM A276
7	Upper Stem	316 S.S./ASTM A479
8	Lock Nut	316 S.S./ASTM A276
9	Packing Nut	316 S.S./ASTM A276
10	Screw	Galvanized steel
11	Handle	6061/ASTM B211
12	Panel Nut	630 S.S./ASTM B783

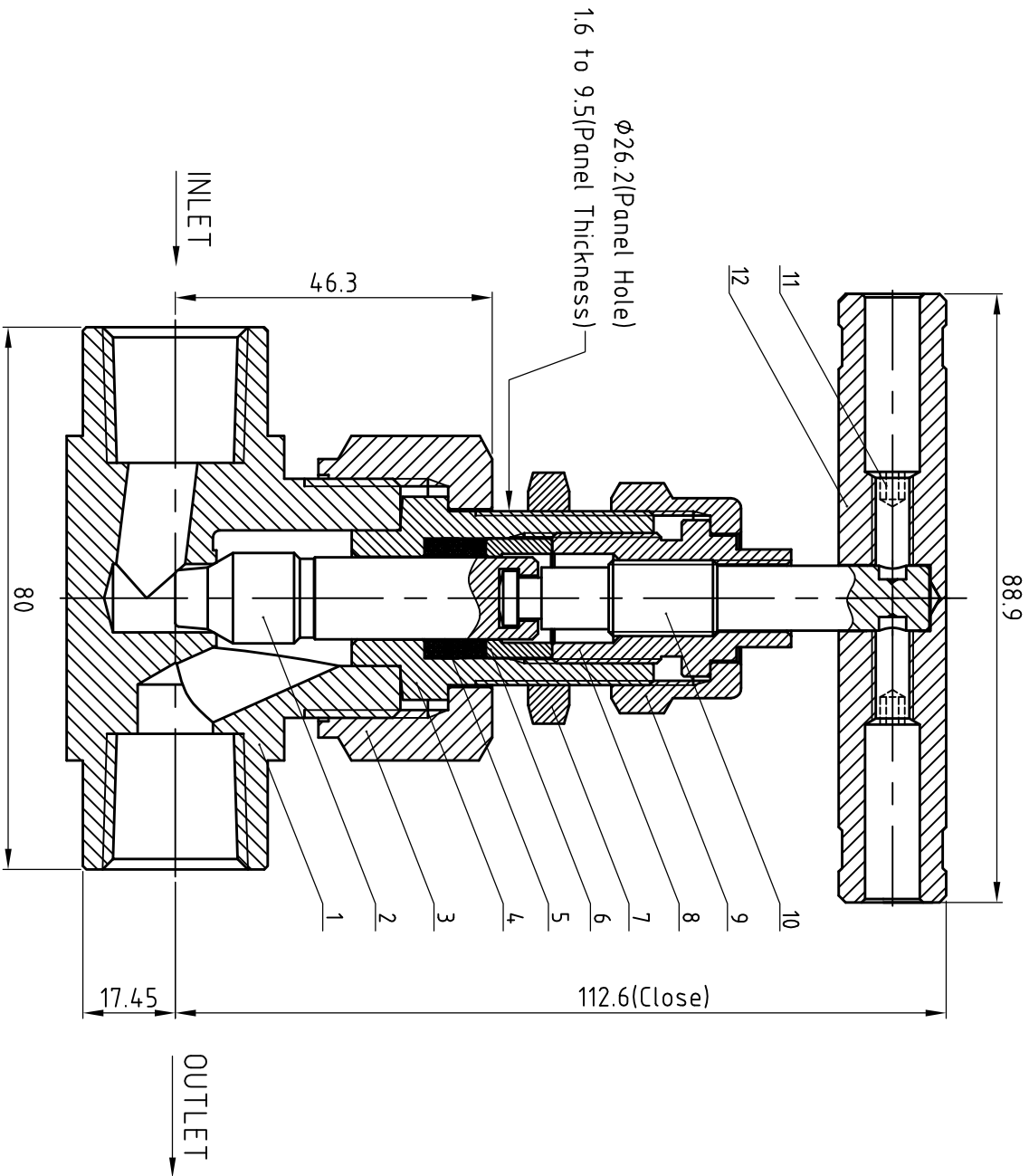
Technical Data:

Orifice Size	6mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	0.8

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)	5160 (355)		
300 (148)	4660 (322)		
400 (204)	4280 (293)		
450 (232)	4130 (284)		

B	Jul.26, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-FNPT6-06-316		
Format	A4	Unit	mm	View	
Scale	Not 1:1	Page	1 of 1		



Technical Data:

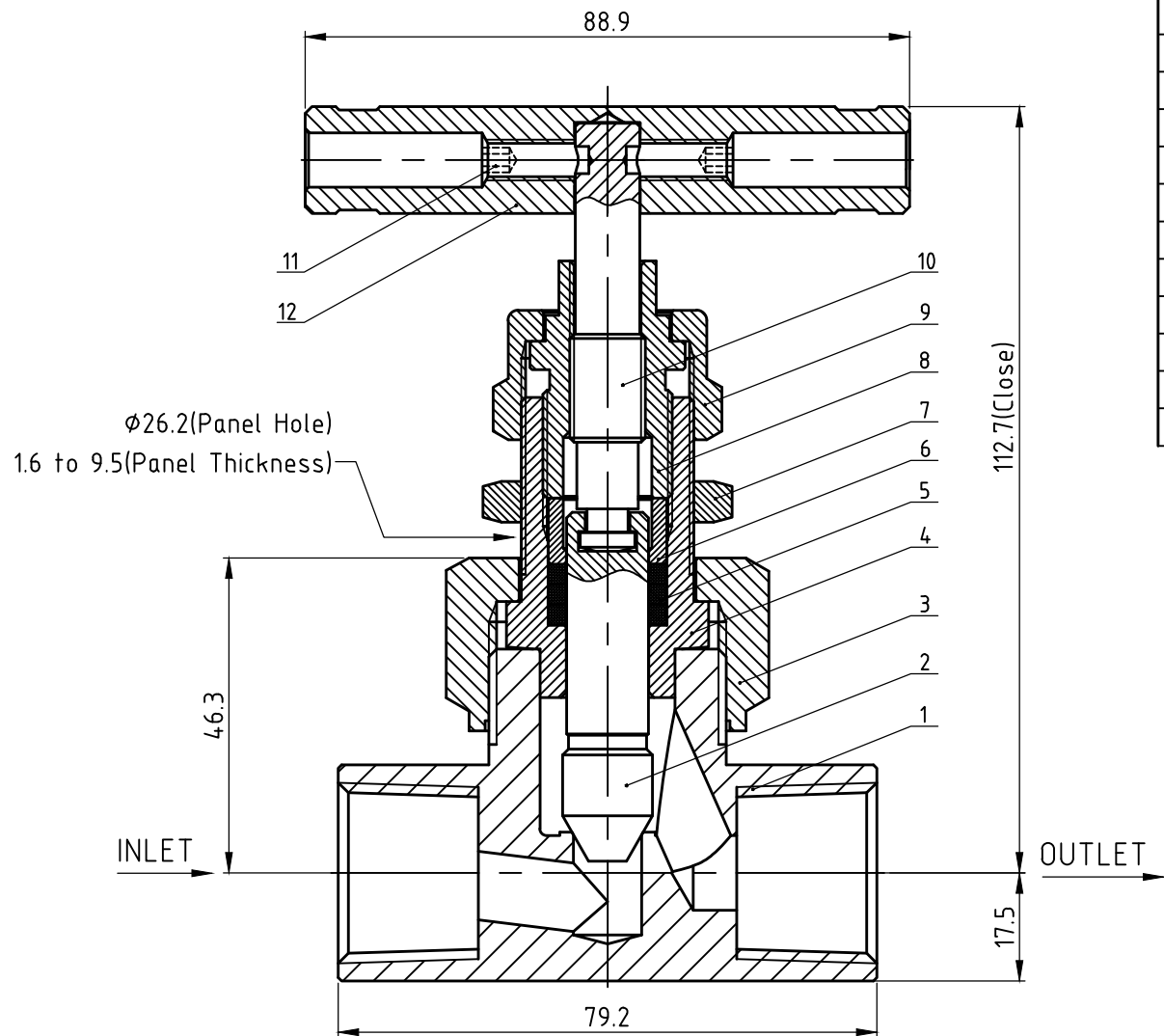
Orifice Size	11mm
Inlet Size	1/2 NPT(F)
Outlet Size	1/2 NPT(F)
Cv	1.8

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)	5160 (355)		
300 (148)	4660 (322)		
400 (204)	4280 (293)		
450 (232)	4130 (284)		

No.	Component	Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A276
7	Panel Nut	630 S.S./ASTM B783
8	Packing Nut	316 S.S./ASTM A276
9	Locking Nut	316 S.S./ASTM A276
10	Upper Stem	316 S.S./ASTM A479
11	Screw	304 S.S.
12	Handle	6061/ASTM B211

A	Jun.13, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOOK		Title	Needle Valve		
		Model	NV3-FNPT8-11R-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	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A276
7	Panel Nut	630 S.S./ASTM B783
8	Packing Nut	316 S.S./ASTM A276
9	Locking Nut	316 S.S./ASTM A276
10	Upper Stem	316 S.S./ASTM A479
11	Screw	304 S.S.
12	Handle	6061/ASTM B211

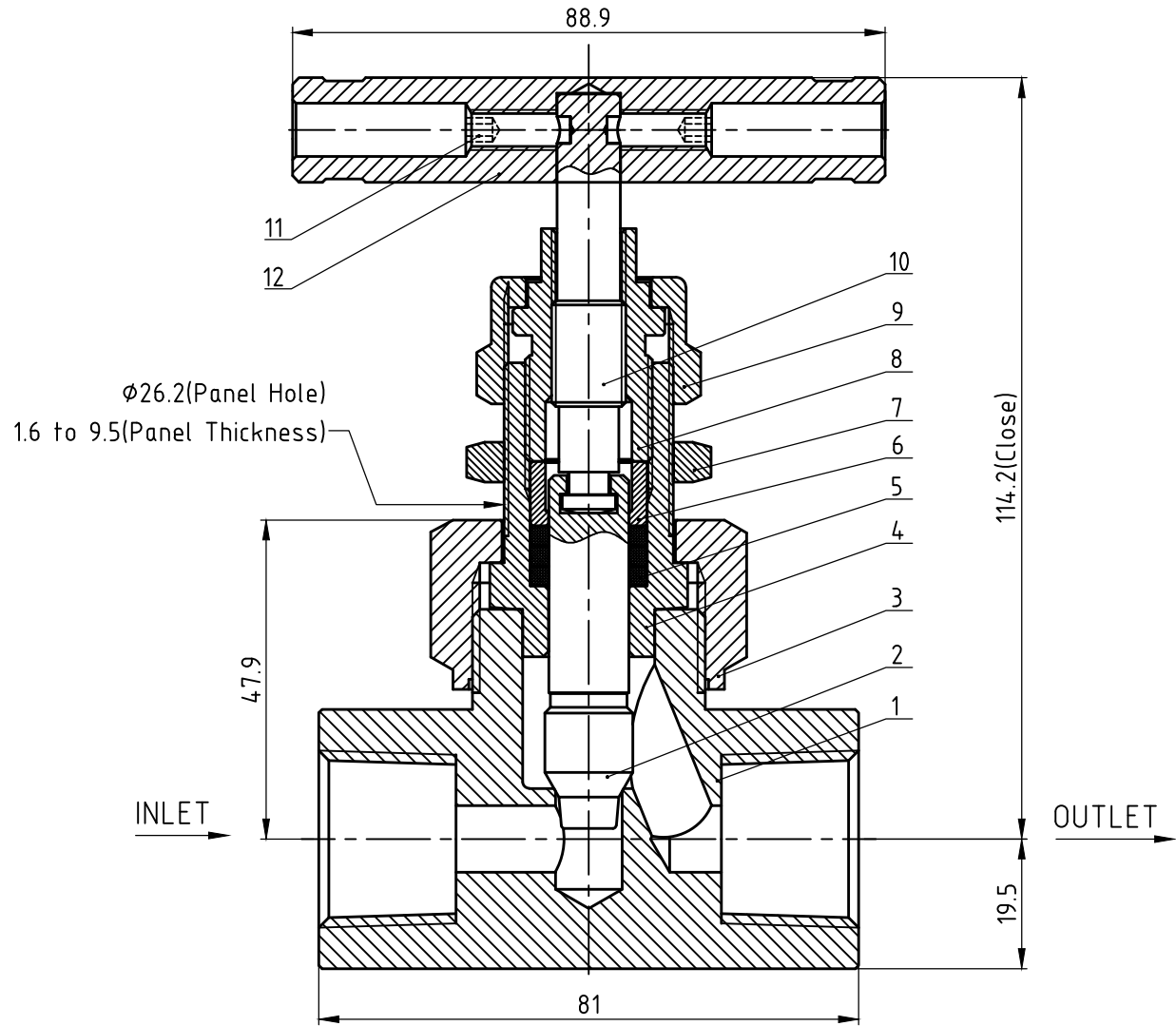
Technical Data:

Orifice Size	11mm
Inlet Size	3/4 NPT(F)
Outlet Size	3/4 NPT(F)
Cv	1.8

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)	5160 (355)		
300 (148)	4660 (322)		
400 (204)	4280 (293)		
450 (232)	4130 (284)		

A	Oct.13, 2023				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-FNPT12-11-316		
Format	A4	Unit	mm	View	
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No.	Component	Material Grade
1	Body	316 S.S./ASTM A182
2	Lower Stem	316 S.S./ASTM A479
3	Lock Nut	316 S.S./ASTM A479
4	Bonnet	316 S.S./ASTM A479
5	Packing	PTFE/ASTM D1710
6	Gland	316 S.S./ASTM A276
7	Panel Nut	630 S.S./ASTM B783
8	Packing Nut	316 S.S./ASTM A276
9	Locking Nut	316 S.S./ASTM A276
10	Upper Stem	316 S.S./ASTM A479
11	Screw	Galvanized steel
12	Handle	6061/ASTM B211

Technical Data:

Orifice Size	11mm
Inlet Size	3/4 NPT(F)
Outlet Size	3/4 NPT(F)
Cv	1.8

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)	5160 (355)		
300 (148)	4660 (322)		
400 (204)	4280 (293)		
450 (232)	4130 (284)		

A	Jul.11, 2022				YES
REV	Revision Date	Created	Checked	Approved	Status
CIR-LOK		Title	Needle Valve		
		Model	NV3-FNPT12-11R-316		
Format	A4	Unit	mm	View	
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