

INSTRUMENTATION NEEDLE / GAUGE / BLOCK & BLEED / BLEED VALVES



Most Cost Effective, World Class Quality
Flow Control Components for Wide Range
of Industries and Applications

The Secret of our success is Ritualistic continuous improvement of our products and process



THE COMPANY

DAWSONS-TECH is an ISO 9001:2015 certified manufacturing company offers wide range of **Consistent and Reliable World Class Quality Flow Control Components** used in Fluid / Gas Control systems in a wide range of Industries.

MANUFACTURING:

DAWSONS-TECH established its comprehensive state of art manufacturing and testing facility installing various CNC Turning Centre and CNC Turnmill Centre, Vertical Machining Centre, etc. with the highly motivated and dedicated team of employees in place. This facilitate us to design and manufacture our product range under stringent quality checks and measurements that ensures "A TOTAL CUSTOMER SATISFACTIONS WITH ZERO DEFECT PRODUCTS".

QUALITY:

DAWSONS-TECH persues not only performance of its products but also ensures "TOTAL QUALITY CONTROL MANAGEMENT SYSTEMS IN ACCORDANCE TO ISO 9001:2015" which is achieved by alerting and educating each and every employee, the importance of quality and by implementing the quality control procedures at every stage of production to final inspection from incoming raw material to finish products.



RESEARCH & DEVELOPMENT:

With our long experience, expertise and continues Research & Development with incorporation of advanced technology and high-tech cutting-edge machineries, **DAWSONS-TECH** is committed to constant upgradation and expand its product range to meet the requirements of its customer to their entire satisfaction at every time.

CUSTOMER SATISFACTION:

We strive to achieve total customer satisfaction and continuously work to set higher goals to provide the reliable quality, timely delivery of our products and prompt services in the best interest of our customers with very competitive price.

INSTRUMENTATION NEEDLE / GAUGE / BLOCK & BLEED / DAWSGNSTECH **BLEED VALVES**

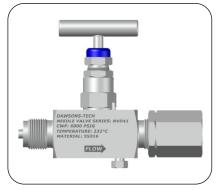


Needle Valve Series: NV101



Page No. 6

Bleeder Screw Guage Valve Series: NVD41



Page No. 11

Needle Valve Series: NV107 (With Live Load System)



Page No. 14

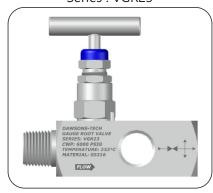
INDEX

Needle Valve Series: NV103 (Panel Mountable)



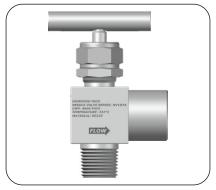
Page No. 8

Guage / Root Valve Series: VGR23



Page No. 12

Angle Needle Valve Series : NV107A (With Live Load System)



Page No. 16

Bleed Valve Series: VBL03



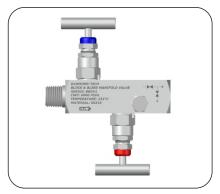
Page No. 19

Bleeder Screw Guage Valve Series: NVD31



Page No. 10

Block & Bleed Gauge Valve Series: BBGV1



Page No. 13

Needle Valve Series: NV109 (For High Pressure 10,000 PSIG)



Page No. 17

INSTRUMENTATION NEEDLE / GAUGE / BLOCK & BLEED / DAWSGNS, TECH **BLEED VALVES**

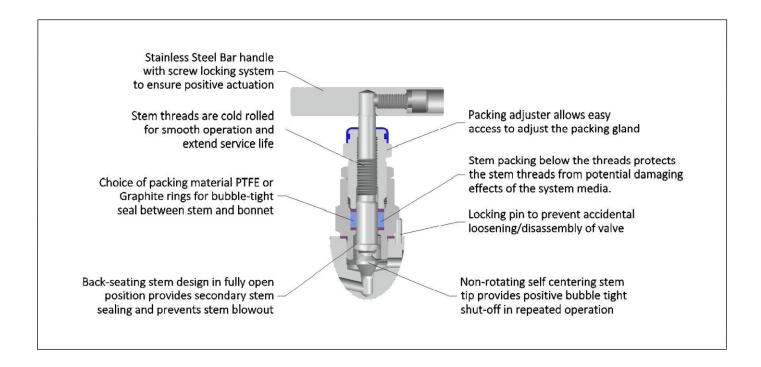


General Information:

DAWSONS-TECH offers most Cost-Effective Needle Valves, Gauge Valves, Block and Bleed Gauge Valves and Bleed Valves which have been design very carefully and manufactured to close tolerances to provide leak free performance for mounting on Pressure Gauges, Pressure Transmitters, Pressure Switches, etc.

Features / Benefits:

- Compact and Rugged Design.
- Bar stock body in straight patterns.
- Low operating torque.
- Anti blow-out stem.
- Flow Coefficient (Cv) from 0.25 to 1.8.
- Orifice size: 4.3mm, 6.3mm and 9.5mm.
- Available in Material SS316, all wetted parts in accordance with NACE MR01-75.
- Available with Male, Female NPT, BSP, BSPT Pipe Thread, Socket Weld and Tube O.D. end connections.
- Every Valve is pressure tested.



Product Range & Operating Parameters:

: UPTO 6000 PSIG (413 Bar at CWP). Pressure Rating Temperature Rating : -54° C to 232° C with PTFE Packing. -96° C to 426° C with Graphite Packing. **Applications:**

- General Plant Services
- Hydraulic & Pneumatic
- Instrumentation Isolations
- Pressure Measurement Devices
- Venting

INSTRUMENTATION NEEDLE / GAUGE / BLOCK & BLEED / DAWSINS **BLEED VALVES**



General Information:

Stem Type: DAWSONS-TECH Valves are available with choice of optional stem to provide greater flexibility.

Non-Rotating (NR) : It is standard self-centering non-rotating stem tip typically used in high cycle application to

extend the Valves life.

'V' Stem (VS) : It is used for general purpose liquid and gases. Soft Seat (SF) : A soft seat stem requires a lower sealing torque.

It is replaceable and suitable for temperature UPTO 120°C.

Regulating Stem (RS) : It is used where some degree of flow control required.

Technical Data:

The temperature and pressure rating for a standard Valve with PTFE packing.

Temperature	Pressure				
Temperature	PSIG	Bar			
-54°C to 38°C	6000	413			
-54°C to 93°C	5160	351			
-54°C to 148°C	4660	317			
-54°C to 204°C	4280	291			
-54°C to 232°C	4130	289			

Type Test Approvals:

The design of DAWSONS-TECH Valves Series: NV101, NV103, NVD31, VGR23, BBGV1 & VBL03 have been tested for Hydrostatic Proof and Burst Test in accordance with MSS SP-99-2016a Clause 5.5 & 5.6.

Testing:

- Standard Test: Each Valve is pressure tested with Nitrogen at 2000 PSIG (138 Bar) for leakage at the seat and packing.
- Optional Hydrostatic Test: This test is performed with De-ionized water at 1.5 times the working pressure.

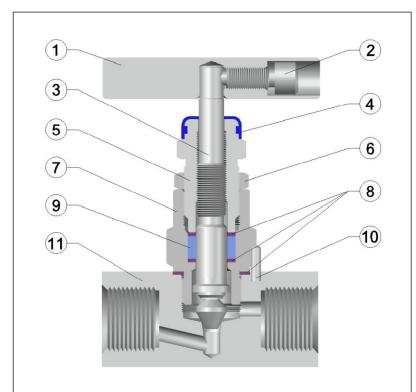
Certification:

The certificate to 3.1 acc. to EN10204 for Valves Body Material and pressure test will be provided on request.



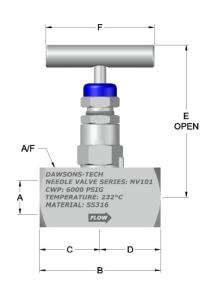
DAWSONS-TECH most cost effective Needle Valves Series: NV101 is having compact and rugged Bar Stock Square Body design and construction. This Valve is most suitable for a variety of applications including Instrumentation, Hydraulic and Pneumatic systems.

Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Dust Cap	PVC
5	Packing Adjustment Screw	SS316
6	Lock Nut	SS316
7	Bonnet	SS316
8	Washer	SS316
9	Packing	PTFE / Graphite
10	Safety Pin	SS316
11	Valve Body	SS316





STANDARD CONFIGURATION DIMENSIONS

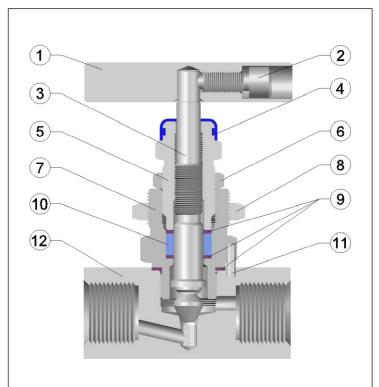
End Connection		Flow [Data	Dimensions in mm				Dawsons-Tech			
Туре	Size - A	Orifice (mm)	Cv	В	С	D	Е	F	A/F	Part No.	
	1/4"	4.3	0.37	72.8	36.4	36.4	79.0	54.0	25.40	NV101-TT4	
Tube OD to	3/8"	4.3	0.37	72.8	36.4	36.4	79.0	54.0	25.40	NV101-TT6	
Tube OD (Fractional)	1/2"	6.3	0.73	80.0	40.0	40.0	80.0	58.0	28.57	NV101-TT8	
	3/4"	9.5	1.80	85.4	42.7	42.7	84.0	63.0	31.75	NV101-TT12	
	6mm	4.3	0.37	72.8	36.4	36.4	79.0	54.0	25.40	NV101-TT6M	
Tube OD to	8mm	4.3	0.37	73.0	36.5	36.5	79.0	54.0	25.40	NV101-TT8M	
Tube OD (Metric)	10mm	6.3	0.73	73.2	36.6	36.6	80.0	54.0	28.57	NV101-TT10M	
	12mm	6.3	0.73	80.0	40.0	40.0	80.0	54.0	28.57	NV101-TT12M	
	1/4"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	25.40	NV101-FF4N	
Female to Female	3/8"	4.3	0.37	60.0	30.0	30.0	80.0	54.0	28.57	NV101-FF6N	
NPT	1/2"	6.3	0.73	65.0	32.5	32.5	84.0	58.0	31.75	NV101-FF8N	
INFI	3/4"	9.5	1.80	70.0	35.0	35.0	87.0	63.0	34.92	NV101-FF12N	
	1"	9.5	1.80	80.0	40.0	40.0	98.0	68.0	44.40	NV101-FF16N	
	1/4"	4.3	0.37	60.0	31.0	29.0	79.0	54.0	25.40	NV101-MF4N	
Male to Female	3/8"	4.3	0.37	62.0	32.0	30.0	80.0	54.0	28.57	NV101-MF6N	
NPT	1/2"	6.3	0.73	70.0	37.5	32.5	84.0	58.0	31.75	NV101-MF8N	
INPI	3/4"	9.5	1.80	75.0	40.0	35.0	87.0	63.0	34.92	NV101-MF12N	
	1″	9.5	1.80	85.0	45.0	40.0	98.0	68.0	44.40	NV101-MF16N	
	1/4"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	25.40	NV101-FF4RG	
Formula to Formula	3/8"	4.3	0.37	60.0	30.0	30.0	80.0	54.0	28.57	NV101-FF6RG	
Female to Female BSP	1/2"	6.3	0.73	65.0	32.5	32.5	84.0	58.0	31.75	NV101-FF8RG	
BSP	3/4"	9.5	1.80	70.0	35.0	35.0	87.0	63.0	34.92	NV101-FF12RG	
	1"	9.5	1.80	80.0	40.0	40.0	98.0	68.0	44.40	NV101-FF16RG	
	1/4"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	25.40	NV101-SW4	
Socket Weld to	3/8"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	25.40	NV101-SW6	
Socket Weld	1/2"	6.3	0.73	65.0	32.5	32.5	80.0	54.0	28.57	NV101-SW8	
	3/4"	6.3	0.73	70.0	35.0	35.0	84.0	58.0	31.75	NV101-SW12	





DAWSONS-TECH offers most cost effective Panel Mountable Needle Valve Series: NV103 is having compact and rugged Bar Stock Square Body design and construction. This Valve is typically used in Severe Environments, Sampling Systems, High Pressure Shutdown Systems and Test Stands.

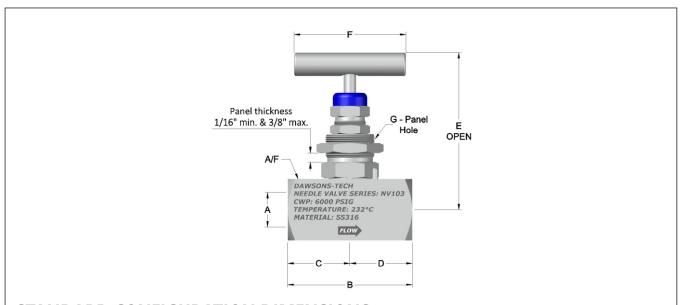
Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Dust Cap	PVC
5	Packing Adjustment Screw	SS316
6	Lock Nut	SS316
7	Bonnet	SS316
8	Panel Nut	SS316
9	Washer	SS316
10	Packing	PTFE / Graphite
11	Safety Pin	SS316
12	Valve Body	SS316

(Panel Mountable)





STANDARD CONFIGURATION DIMENSIONS

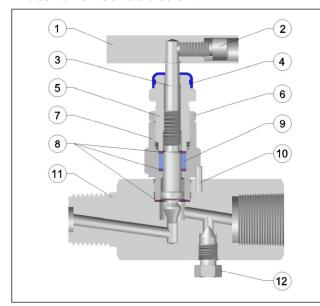
End Connection F			Data	Dimensions in mm							Dawsons-Tech
Туре	Size - A	Orifice (mm)	Cv	В	С	D	Е	F	G	A/F	Part No.
T. L. OD.	1/4"	4.3	0.37	72.8	36.4	36.4	79.0	54.0	19.8	25.40	NV103-TT4
Tube OD to	3/8"	4.3	0.37	72.8	36.4	36.4	79.0	54.0	19.8	25.40	NV103-TT6
Tube OD	1/2"	6.3	0.73	80.0	40.0	40.0	80.0	58.0	22.5	28.57	NV103-TT8
(Fractional)	3/4"	9.5	1.80	85.4	42.7	42.7	84.0	63.0	22.5	31.75	NV103-TT12
Tule - OD to	6mm	4.3	0.37	72.8	36.4	36.4	79.0	54.0	19.8	25.40	NV103-TT4M
Tube OD to	8mm	4.3	0.37	73.0	36.5	36.5	79.0	54.0	19.8	25.40	NV103-TT6M
Tube OD	10mm	6.3	0.73	73.2	36.6	36.6	80.0	54.0	22.5	28.57	NV103-TT8M
(Metric)	12mm	6.3	0.73	80.0	40.0	40.0	80.0	54.0	22.5	28.57	NV103-TT12M
	1/4"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	19.8	25.40	NV103-FF4N
Female to Female	3/8"	4.3	0.37	60.0	30.0	30.0	80.0	54.0	19.8	28.57	NV103-FF6N
NPT	1/2"	6.3	0.73	65.0	32.5	32.5	84.0	58.0	26.0	31.75	NV103-FF8N
	3/4"	9.5	1.80	70.0	35.0	35.0	87.0	63.0	26.0	34.92	NV103-FF12N
	1/4"	4.3	0.37	60.0	31.0	29.0	79.0	54.0	19.8	25.40	NV103-MF4N
Male to Female	3/8"	4.3	0.37	62.0	32.0	30.0	80.0	54.0	19.8	28.57	NV103-MF6N
NPT	1/2"	6.3	0.73	70.0	37.5	32.5	84.0	58.0	26.0	31.75	NV103-MF8N
	3/4"	9.5	1.80	75.0	40.0	35.0	87.0	63.0	26.0	34.92	NV103-MF12N
	1/4"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	19.8	25.40	NV103-FF4RG
Female to Female	3/8"	4.3	0.37	60.0	30.0	30.0	80.0	54.0	19.8	28.57	NV103-FF6RG
BSP	1/2"	6.3	0.73	65.0	32.5	32.5	84.0	58.0	26.0	31.75	NV103-FF8RG
	3/4"	9.5	1.80	70.0	35.0	35.0	87.0	63.0	26.0	34.92	NV103-FF12RG
	1/4"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	19.8	25.40	NV103-SW4
Socket Weld to	3/8"	4.3	0.37	58.0	29.0	29.0	79.0	54.0	19.8	25.40	NV103-SW6
Socket Weld	1/2"	6.3	0.73	65.0	32.5	32.5	80.0	54.0	26.0	28.57	NV103-SW8
	3/4"	6.3	0.73	70.0	35.0	35.0	84.0	58.0	26.0	31.75	NV103-SW12

BLEEDER SCREW GUAGE VALVES SERIES: NVD31

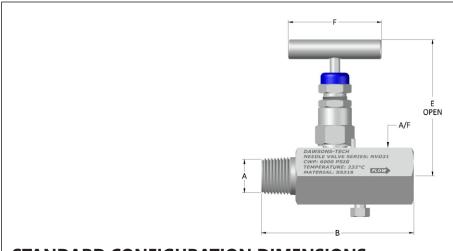


DAWSONS-TECH most cost effective Bleeder Screw Guage Valve Series: NVD31 is having compact and rugged Bar Stock Hex Body equipped with a Bleed Screw design and construction. This Valve is most suitable for a variety of applications including Instrumentation, Hydraulic and Pneumatic systems.

Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Dust Cap	PVC
5	Packing Adjustment Screw	SS316
6	Lock Nut	SS316
7	Bonnet	SS316
8	Washer	SS316
9	Packing	PTFE/Graphite
10	Safety Pin	SS316
11	Valve Body	SS316
12	Drain Plug	SS316



STANDARD CONFIGURATION DIMENSIONS

End Connection		Flow Data			Dimensio	Dawsons-Tech		
Туре	Size - A	Orifice (mm)	Cv	В	Е	F	A/F	Part No.
Female to Female	1/4"	4.3	0.37	66.0	80.0	54.0	28.57	NVD31-FF4N
	3/8"	4.3	0.37	66.0	80.0	54.0	28.57	NVD31-FF6N
NPT	1/2"	4.3	0.37	69.0	84.0	58.0	31.75	NVD31-FF8N
Male to Female	1/4"	4.3	0.37	73.0	80.0	54.0	28.57	NVD31-MF4N
NPT	3/8"	4.3	0.37	73.0	80.0	54.0	28.57	NVD31-MF6N
INFI	1/2"	4.3	0.37	85.0	84.0	58.0	31.75	NVD31-MF8N
Famala ta Famala	1/4"	4.3	0.37	69.0	80.0	54.0	28.57	NVD31-FF4RG
Female to Female	3/8"	4.3	0.37	69.0	80.0	54.0	28.57	NVD31-FF6RG
BSP	1/2"	4.3	0.37	88.0	84.0	58.0	31.75	NVD31-FF8RG
Male to Female BSP	1/4"	4.3	0.37	69.0	80.0	54.0	28.57	NVD31-MF4G
	3/8"	4.3	0.37	69.0	80.0	54.0	28.57	NVD31-MF6G
DSF	1/2"	4.3	0.37	88.0	84.0	58.0	31.75	NVD31-MF8G

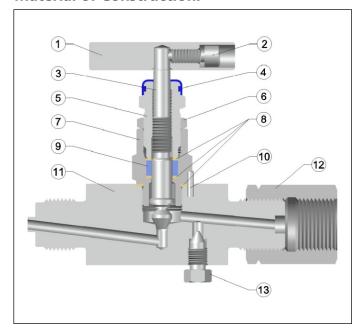
BLEEDER SCREW GUAGE VALVES SERIES: NVD41



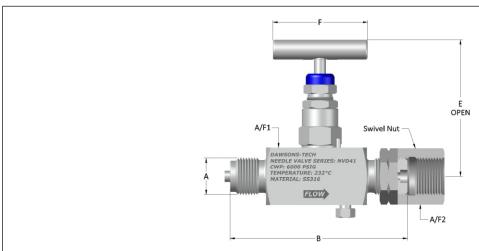
(With Swivel Nut)

DAWSONS-TECH most cost effective Bleeder Screw Guage Valve Series: NVD41 is having compact and rugged Bar Stock Square Body equipped with a Bleed Screw and Swivel Nut design and construction for a variety of applications including Instrumentation, Hydraulic and Pneumatic applications.

Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Dust Cap	PVC
5	Packing Adjustment Screw	SS316
6	Lock Nut	SS316
7	Bonnet	SS316
8	Washer	SS316
9	Packing	PTFE
10	Safety Pin	SS316
11	Valve Body	SS316
12	Swivel Nut	SS316
13	Drain Plug	SS316



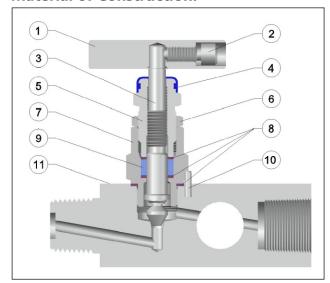
STANDARD CONFIGURATION DIMENSIONS

End Connection Size - A	Flow	Data	Dimensions in mm					Dawsons-Tech
End Connection Size - A	Orifice (mm)	Cv	В	E	F	A/F1	A/F2	Part No.
1/4" BSP (Male x Swivel Nut)	3.2	0.25	80.0	79.0	54.0	25.40	19.0	NVD41-MF4G
1/2" BSP (Male x Swivel Nut)	4.3	0.37	100.0	84.0	58.0	31.75	27.0	NVD41-MF8G
M20 x 1.5 (Male x Swivel Nut)	4.3	0.37	100.0	84.0	58.0	31.75	27.0	NVD41-MF20M
1/2" BSP x M22 x 1.5 (Male x Swivel Nut)	4.3	0.37	100.0	84.0	58.0	31.75	27.0	NVD41-M8G-22M

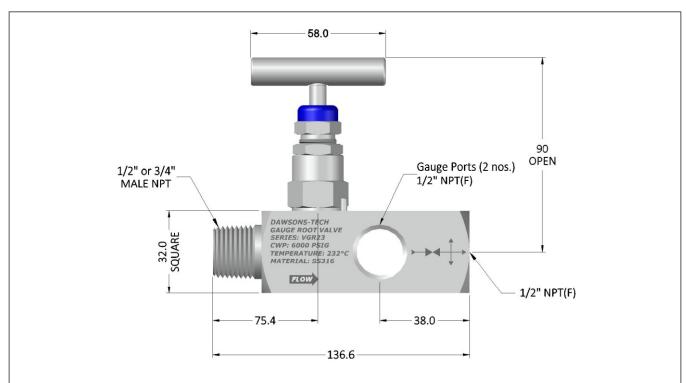


DAWSONS-TECH most cost effective Gauge / Root Valve Series: VGR23 is having compact and rugged Bar Stock Square Body design and construction. This Valve can accommodate a variety of Gauge positions and handle orientations. They are suitable for Block & Bleed assemblies when a Purge Valve, Sampling line or test pressure source is required.

Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Dust Cap	PVC
5	Packing Adjustment Screw	SS316
6	Lock Nut	SS316
7	Bonnet	SS316
8	Washer	SS316
9	Packing	PTFE/Graphite
10	Safety Pin	SS316
11	Valve Body	SS316



STANDARD CONFIGURATION DIMENSIONS

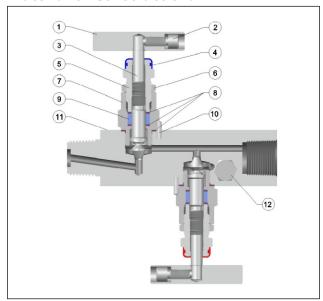
End Cor	nnection	Dawsons-Tech		
Inlet	Outlet	Part No.		
1/2" NPT (Male)	1/2" NPT (Female)	VGR23-MF8N/SSTNR		
3/4" NPT (Male)	1/2" NPT (Female)	VGR23-M12N-F8N/SSTNR		

BLOCK & BLEED GAUGE VALVES SERIES: BBGV1



DAWSONS-TECH most cost effective Block & Bleed Gauge Valve Series: BBGV1 is having Bar Stock Square Body design and construction with two Valves for a safe and economical method for mounting Pressure Gauges, Pressure Transmitters, Pressure Switches, etc. These two Valves Manifold combines an Isolation Valve with a vent Valve in one compact unit.

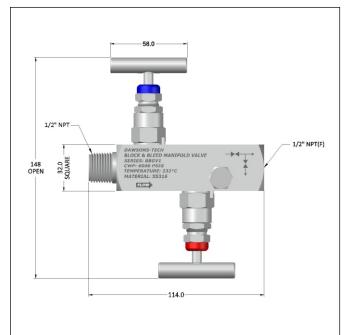
Material of Construction:

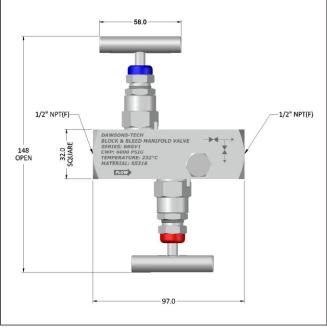


Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Dust Cap	PVC
5	Packing Adjustment Screw	SS316
6	Lock Nut	SS316
7	Bonnet	SS316
8	Washer	SS316
9	Packing	PTFE/Graphite
10	Safety Pin	SS316
11	Valve Body	SS316
12	Drain Plug	SS316

Block & Bleed Gauge Valve
Series: BBGV1 (Female to Female)
Part No. BBGV1-FF8N/SSTNR







Block & Bleed Gauge Valve
Series: BBGV1 (Male to Female)
Part No. BBGV1-MF8N/SSTNR

(With Live Load System)

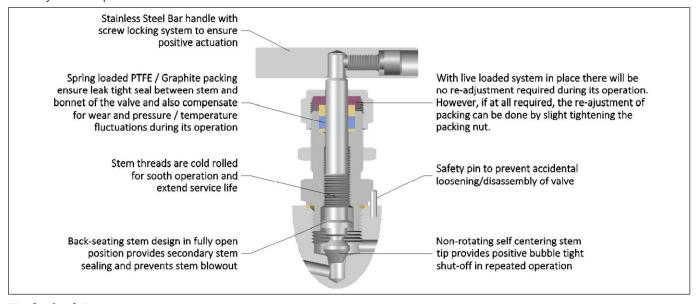


DAWSONS-TECH Needle Valve Series: NV107 design very carefully with live loaded PTFE/Graphite packing to provide repeted leak tight seal between Stem and Bonnet of the Valve and also compensate for wear and pressure / temprature fluctuations during its operations.

Features / Benefits:

- · Compact and Rugged Design.
- Bar stock body in straight & angle pattern.
- Low operating torque.
- · Anti blow-out stem.
- Flow Coefficient (Cv) from 0.25 to 0.73.
- Every Valve is pressure tested.

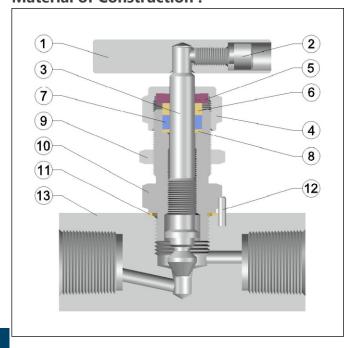
- Orifice size: 4.3mm and 6.3mm.
- Available in Material SS316, all wetted parts in accordance with NACE MR01-75.
- Available with Male, Female NPT, BSP, BSPT Pipe Threads.
- Available with self centering non-rotations stem tip.



Technical Data: The temperature and pressure rating for a standard Valve with PTFE packing.

Temperature	Pres	sure
remperature	PSIG	Bar
-54°C to 38°C	6000	413
-54°C to 93°C	5160	351
-54°C to 148°C	4660	317
-54°C to 204°C	4280	291
-54°C to 232°C	4130	289

Material of Construction:



Sr. No.	Part Description	Material		
1	Handle	SS316		
2	Screw	SS316		
3	Valve Stem	SS316		
4	Packing Nut	SS316		
5	Belleville Washer	Stainless Steel		
6	Upper Gland	SS316		
7	Packing	PTFE / Graphite		
8	Lower Gland	SS316		
9	Panel Nut	SS316		
10	Bonnet	SS316		
11	Washer	SS316		
12	Safety Pin	SS316		
13	Valve Body	SS316		

DAWSGNS-TECH®

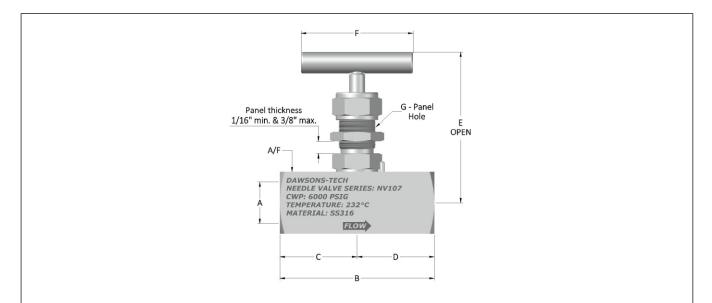
(With Live Load System)

Testing:

- Standard Test: Each Valve is pressure tested with Nitrogen at 2000 PSIG (138 Bar) for leakage at the seat and packing.
- Optional Hydrostatic Test: This test is performed with De-ionized water at 1.5 times the working pressure.

Certification:

The certificate to 3.1 acc. to EN10204 for Valves Body Material and pressure test will be provided on request.



STANDARD CONFIGURATION DIMENSIONS

End Connection Flow Da			Data	Dimensions in mm							Dawsons-Tech
Туре	Size - A	Orifice (mm)	Cv	В	С	D	E	F	G	A/F	Part No.
Tube OD to	1/4"	4.3	0.37	72.8	36.4	36.4	75.0	54.0	19.6	25.40	NV107-TT4
Tube OD	3/8"	4.3	0.37	72.8	36.4	36.4	75.0	54.0	19.6?	25.40	NV107-TT6
(Fractional)	1/2"	6.3	0.73	80.0	40.0	40.0	79.0	58.0	19.6	28.57	NV107-TT8
	6mm	4.3	0.37	72.8	36.4	36.4	75.0	54.0	19.6	25.40	NV107-TT4M
Tube OD to	8mm	4.3	0.37	73.0	36.5	36.5	75.0	54.0	19.6	25.40	NV107-TT6M
Tube OD	10mm	6.3	0.73	73.2	36.6	36.6	79.0	54.0	19.6	28.57	NV107-TT8M
(Metric)	12mm	6.3	0.73	80.0	40.0	40.0	79.0	54.0	19.6	28.57	NV107-TT12M
	1/4"	4.3	0.37	58.0	29.0	29.0	75.0	54.0	19.6	25.40	NV107-FF4N
Female to Female	3/8"	4.3	0.37	60.0	30.0	30.0	79.0	54.0	19.6	28.57	NV107-FF6N
NPT	1/2"	6.3	0.73	65.0	32.5	32.5	80.5	58.0	19.6	31.75	NV107-FF8N
	1/4"	4.3	0.37	60.0	31.0	29.0	75.0	54.0	19.6	25.40	NV107-MF4N
Male to Female	3/8"	4.3	0.37	62.0	32.0	30.0	75.0	54.0	19.6	28.57	NV107-MF6N
NPT	1/2"	6.3	0.73	70.0	37.5	32.5	80.5	58.0	19.6	31.75	NV107-MF8N
Famala ta Famala	1/4"	4.3	0.37	58.0	29.0	29.0	75.0	54.0	19.6	25.40	NV107-FF4RG
Female to Female	3/8"	4.3	0.37	60.0	30.0	30.0	79.0	54.0	19.6	28.57	NV107-FF6RG
BSP	1/2"	6.3	0.73	65.0	32.5	32.5	80.5	58.0	19.6	31.75	NV107-FF8RG
	1/4"	4.3	0.37	58.0	29.0	29.0	75.0	54.0	19.6	25.40	NV107-SW4
Socket Weld to	3/8"	4.3	0.37	58.0	29.0	29.0	75.0	54.0	19.6	25.40	NV107-SW6
Socket Weld	1/2"	6.3	0.73	65.0	32.5	32.5	79.0	54.0	19.6	28.57	NV107-SW8
	3/4"	6.3	0.73	70.0	35.0	35.0	80.5	58.0	19.6	31.75	NV107-SW12

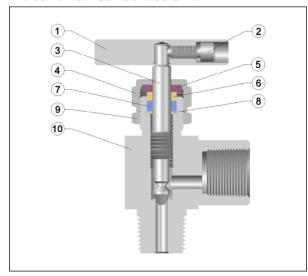
ANGLE NEEDLE VALVES SERIES: NV107A



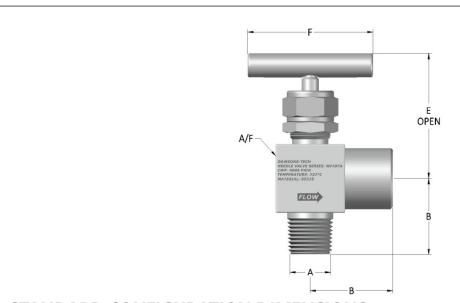
(With Live Load System)

DAWSONS-TECH Needle Valve Series: NV107A (Angle Pattern) design very carefully with live loaded PTFE/Graphite packing to provide repeated leak tight seal between stem and bonnet of the valve and also compensate for wear and pressure / temprature fluctuations during its operations.

Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Packing Nut	SS316
5	Belleville Washer	Stainless Steel
6	Upper Gland	SS316
7	Packing	PTFE / Graphite
8	Lower Gland	SS316
9	Lock Nut	SS316
10	Valve Body	SS316



STANDARD CONFIGURATION DIMENSIONS

End Connection		Flow	Data	Dimensions in mm			Dawsons-Tech	
Туре	Size - A	Orifice (mm)	Cv	В	E	F	A/F	Part No.
Tube OD to Tube OD	1/4"	4.3	0.37	29.5	46.0	54.0	25.40	NV107A-TT4
Female to Female	1/4"	4.3	0.37	25.4	46.0	54.0	25.40	NV107A-FF4N
NPT	1/2"	6.3	0.73	35.8	62.5	58.0	31.75	NV107A-FF8N
NA 1 4 5 1	1/4"	4.3	0.37	25.4	46.0	54.0	25.40	NV107A-MF4N
Male to Female	3/8"	4.3	0.37	35.8	62.5	54.0	28.57	NV107A-MF6N
NPT	1/2"	6.3	0.73	35.8	62.5	58.0	31.75	NV107A-MF8N
Male to Tube OD	1/4"	4.3	0.37	28.7	46.0	54.0	25.40	NV107A-FF4RG

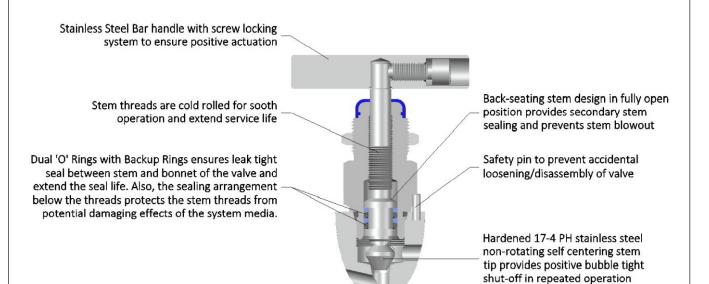
(For High Pressure 10,000 PSIG)



DAWSONS-TECH Needle Valve Series: NV109 design very carefully with dual 'O' Ring Sealing Arrangement between stem & bonnet of the Valve to provide reliable leak-tight performance under high pressure upto 10,000 PSIG (690 Bar) applications.

Features / Benefits:

- · Compact and Rugged Design.
- Bar stock body in straight pattern.
- · Pannel mountable.
- · Low operating torque.
- · Anti blow-out stem.
- Flow Coefficient (Cv) from 0.37 to 0.73.
- Orifice size: 4.3mm and 6.3mm.
- Available in Material SS316 & Carbon Steel.
- Available with 1/4" to 1/2" Male / Female NPT, BSP, BSPT Pipe Threads and Metric / Inch Tube end connections.
- Every Valve is pressure tested.



Operating Parameters:

Pressure Rating : UPTO 10,000 PSIG (690 Bar at CWP).

• Temperature Rating : UPTO 120° C

Applications:

- General Plant Services
- Hydraulic & Pneumatic
- Instrumentation Isolations
- Venting

Testing:

- Standard Test: Each Valve is pressure tested with Nitrogen at 2000 PSIG (138 Bar) for leakage at the seat and packing.
- Optional Hydrostatic Test: This test is performed with De-ionized water at 1.5 times the working pressure.

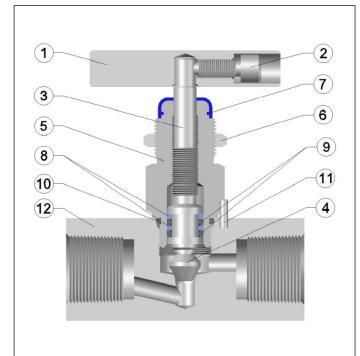
Certification:

The certificate to 3.1 acc. to EN10204 for Valves Body Material and pressure test will be provided on request.

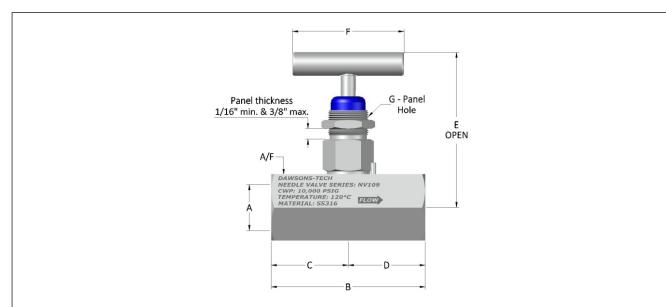




Material of Construction:



Sr. No.	Part Description	Material
1	Handle	SS316
2	Screw	SS316
3	Valve Stem	SS316
4	Stem Tip	17-4 PH
5	Bonnet	SS316
6	Panel Nut	SS316
7	Dust Cap	PVC
8	Back-up Ring	PTFE
9	'O' Rings	Fluorocarbon
10	'O' Ring	Fluorocarbon
11	Safety Pin	SS316
12	Valve Body	SS316



STANDARD CONFIGURATION DIMENSIONS

End Connection		Flow	Data		Din	nensions	in mm			Dawsons-Tech	
Туре	Size - A	Orifice (mm)	Cv	В	С	D	E	F	A/F	Part No.	
Famala ta Famala	1/4"	4.3	0.37	58.0	29.0	29.0	63.5	54.0	28.57	NV109-FF4N	
Female to Female	3/8"	4.3	0.37	60.0	30.0	30.0	63.5	54.0	28.57	NV109-FF6N	
NPT	1/2"	6.3	0.73	68.0	32.5	32.5	65.0	58.0	31.75	NV109-FF8N	
Male to Female	1/4"	4.3	0.37	60.0	31.0	29.0	63.5	54.0	28.57	NV109-MF4N	
NPT	3/8"	4.3	0.37	62.0	32.0	30.0	63.5	54.0	28.57	NV109-MF6N	
141 1	1/2"	6.3	0.73	70.0	37.5	32.5	65.0	58.0	31.75	NV109-MF8N	
Female to Female	1/4"	4.3	0.37	58.0	29.0	29.0	63.5	54.0	28.57	NV109-FF4RG	
BSP	3/8"	4.3	0.37	60.0	30.0	30.0	63.5	54.0	28.57	NV109-FF6RG	
231	1/2"	6.3	0.73	68.0	32.5	32.5	65.0	58.0	31.75	NV109-FF8RG	

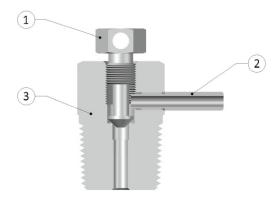


DAWSONS-TECH most cost effective Bleed Valves Series: VBL03 is having compact and rugged Bar Stock Hex Body design and constructrion for a variety of applications including Instrumentation, Hydraulic and Pneumatic systems.

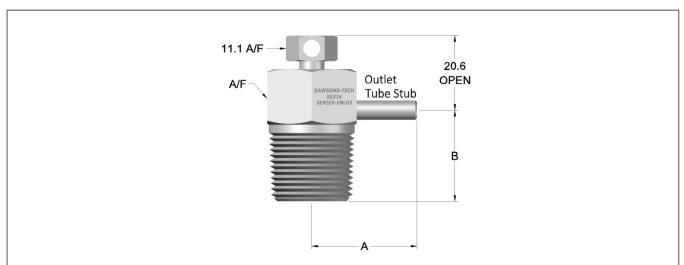
Features / Benefits:

- · Compact and Convenient installation.
- · Vent Tube prevents accidental removal of Stem.
- Vent Tube directs excess liquid / Gas from system line.
- Flow Coefficient (Cv) 0.25.
- Available with Male / Female NPT, BSPT Pipe Thread and Tube Fittings end connections.
- Available in material SS316.
- · Every Valve is pressure tested.

Material of Construction:



Sr. No.	Part Description	Material
1	Stem	SS316
2	Vent Tube	SS316
3	Body	SS316



Er	Flow Data		Dime	ensions In	Dawsons-Tech			
Туре	Inlet	Outlet	Orifice (mm)	Cv	Α	В	A/F	Part No.
	1/8"	3/16" OD Tube Stub	3.20	0.25	23.9	19.1	15.87	VBL03-M2N
Male (NPT)	1/4"	3/16" OD Tube Stub	3.20	0.25	23.9	19.1	15.87	VBL03-M4N
iviale (INF1)	3/8"	3/16" OD Tube Stub	3.20	0.25	26.3	22.3	22.22	VBL03-M6N
	1/2"	3/16" OD Tube Stub	3.20	0.25	26.3	22.3	22.22	VBL03-M8N
	1/8"	3/16" OD Tube Stub	3.20	0.25	23.9	19.1	15.87	VBL03-M2RT
Male (BSPT)	1/4"	3/16" OD Tube Stub	3.20	0.25	23.9	19.1	15.87	VBL03-M4RT
	3/8"	3/16" OD Tube Stub	3.20	0.25	26.3	22.3	22.22	VBL03-M6RT
	1/2"	3/16" OD Tube Stub	3.20	0.25	26.3	22.3	22.22	VBL03-M8RT

INSTRUMENTATION NEEDLE / GAUGE / BLOCK & BLEED / DAWSGNSTECH® **BLEED VALVES**



ORDERING INFORMATION:

For Example: PART NO. NV101-FF8N-SSTNR (NEEDLE VALVES)

Valve Series	End Connection Type	End Connection Size	Pipe Thread Type	Material of Construction	Packing Material	Stem Type
NV101	FF	8	N	SS	Т	NR
1	2	3	4	5	6	7

For Example: PART NO. NVD31-FF8N-SSTNR (BLEEDER SCREW GAUGE VALVES)

Valve Series	End Connection Type	End Connection Size	Pipe Thread Type	Material of Construction	Packing Material	Stem Type
NVD31	FF	8	N	SS	Т	NR
1	2	3	4	5	6	7

For Example: PART NO. VGR23-FF8N-SSTNR (GAUGE / ROOT VALVES)

Valve Series	End Connection Type	End Connection Size	Pipe Thread Type	Material of Construction	Packing Material	Stem Type
VGR23	FF	8	N	SS	Т	NR
1	2	3	4	5	6	7

For Example: PART NO. BBGV1-FF8N-SSTNR (BLOCK & BLEED GAUGE VALVES)

Valve Series	End Connection Type	End Connection Size	Pipe Thread Type	Material of Construction	Packing Material	Stem Type
BBGV1	FF	8	N	SS	Т	NR
1	2	3	4	5	6	7

For Example: PART NO. VBL03-M8N-SS (BLEED VALVES)

Valve Series	End Connection Type	End Connection Size	Pipe Thread Type	Material of Construction
VBL03	M	8	N	SS
1	2	3	4	5

INSTRUMENTATION NEEDLE / GAUGE / BLOCK & BLEED / DAWSINSTEIN **BLEED VALVES**



ORDERING INFORMATION:

	Valves Type	Series
		NV101
		NV103
	Needle Valves	NV107
		NV107A
1)		NV109
	Needle Valves with a Bleed Screw	NVD31
	Needle valves with a bleed Screw	NVD41
	Gauge / Root Valve	VGR23
	Block & Bleed Gauge Valve	BBGV1
	Bleed Valve	VBL03

2)	End Connection Type	TT: Tube OD x Tube OD
		FF : Female x Female
		MM : Male x Male
		MF : Male x Female
		FM : Female x Male
		SW : Socket Weld

	End (Size Tube Fit	tings	
	Fraction	nal Tube	Metric Tube	
	4	1/4"	6M	6MM
	6	3/8"	8M	8MM
	8	1/2"	10M	10MM
	12	3/4"	12M	12MM
	16	1"	22M	22MM
3)			25M	25MM
			4	1/4"
	Pipe End Connection Size		6	3/8"
			8	1/2"
			12	3/4"
			16	1"

	End Connection	N: NPT (Male / Female)
1		RT: BSPT (Male / Female)
4)	Thread Type	G: BSP (Male)
		RG: BSP (Female)

5)		SS	:SS316
	Material	SSL	: SS316L
		DX	: Duplex
		CS	: Carbon Steel

		Т	: PTFE
6)	Packing Material	G	: Graphite
		V	: Fluorocarbon

	NR: Non-Rotating
7) Stem Type	VS: 'V' Stem
7) Stelli Type	SF: Soft Seat Stem
	RS: Regulating Stem

OUR PLEDGE

DAWSONS-TECH is self-committed for continuous development and upgradation of its products to meet the growing demands for Industries requirements of Flow Control Components by advanced technology induction and cutting-edge solution which is in-line with focused objective mission

"TO PROVIDE OUR CUSTOMERS WITH CONSISTENT RELIABLE QUALITY PRODUCTS AT RIGHT TIME & COMPETITIVE PRICE"

OUR COMPREHENSIVE PRODUCT LINE





37° Flare Fittings / BSP 60° Cone Fittings



Precision Threaded / Socket / Butt Weld Pipe Fittings & Adapters



High Purity Fittings



Wellhead Grease / Bleed Fittings & Components



Instrumentation Valves



Gauge Cock & Accessories



High Pressure Ball Valves



Check Valves



Quick Connect Couplings to ISO 16028 & ISO 7241-1 Series B



Customized Fittings and Valves



NOTES:	



Registered Office and Manufacturing Plant :

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