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APURVA ENTERPRISES

7, Vijay Estate, Rajawadi, Ghatkopar (E),
Mumbai - 400077, Maharashtra, India.

Ph. No.:- 91-022-2344 3348 **Fax:-** 91-022-2341 4216.

E-mail:- apurvaenterprises@gmail.com
apurvaenterprises@hotmail.com

NEEDLE VALVES



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Needle Valve Nomenclature

Needle Valve Type Designator

Type of Needle Valve	Needle Valve Designator
Screwed Bonnet Needle Valve	AESNV
Screwed Bonnet Needle Valve with Vent	AESNVV
Integral Bonnet Needle Valve	AEINV
Forged Body Needle Valve	AEFNV
Union Bonnet Needle Valve - Severe Service	AEUNVSS
Single Port Gauge Needle Valve	AESPGNV
Multi Port Gauge Needle Valve	AEMPGNV

Thread / Tube OD / Pipe Size Designation

Thread / Tube OD / Pipe Size (in)	Size Designator
1/4	4
3/8	6
1/2	8
3/4	12
1	16

End Connection Designator

End Connection	End Connection Designator
NPT	N
BSPT (Taper)	R
BSPP (Parallel)	G
Tube OD Ends	TOD
Socket-Weld Ends	SW

Material of Fittings

Material	Designator
Steel	S
Stainless Steel 316	S6
Stainless Steel 316L	S6L
Stainless Steel 304	S4
Brass	B
Other Material	On Request
Material conforming to NACE MR 01-75 available on request	

Fluid Flow Direction Designator

Fluid Flow Direction	Fluid Flow Direction Designator
Straight	S
Angular	A

Inlet- Outlet (IO) Connection Designator

IO Connection Type	IO Connection Designator
Male Thread x Male Thread	MM
Male Thread x Female Thread	MF
Female Thread x Female Thread	FF
Tube OD x Tube OD	TT
Tube OD x Male Thread	TM
Tube OD x Female Thread	TF
Socket-Weld x Socket-Weld	SS
Socket-Weld x Male Thread	SM
Socket-Weld x Female Thread	SF



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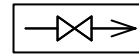
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Ordering Procedure

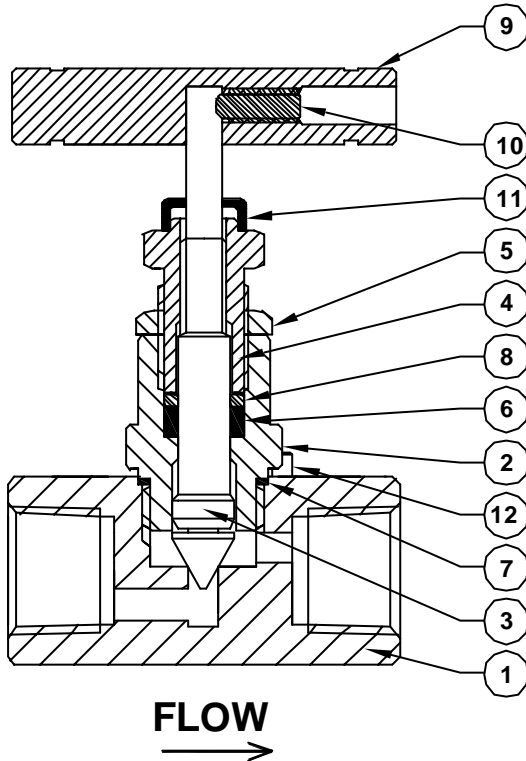
Thread OR Tube OD OR Pipe Size	End Connection Designator	Type of Needle Valve	Fluid Flow Direction	Material	IO Connection Type
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SCREWED BONNET NEEDLE VALVE

MODEL : AESNV



SCHEMATIC



NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	BONNET	1	SS 316
3	STEM	1	SS 316
4	BONNET PUSHER	1	SS 316
5	LOCK NUT	1	SS 316
6	PACKING	1	PTFE
7	BONNET SEAL	1	PTFE
8	WASHER	1	SS 316
9	HANDLE	1	SS 304
10	GRUB SCREW	1	Steel
11	DUST CAP	1	PLASTIC
12	LOCKING PIN	1	SS 316

FEATURES

- DESIGN** : Screwed bonnet.
BONNET : Back seat blowout proof.
STEM : Roll threaded stem.
STEM TIP : Rotating
 Self Centering Non Rotating,
 Regulating and Soft Seated.
PACKING : Packing below the Stem
 threads ensures that the
 media thru the valve does
 not come in contact with the
 thread lubricant and vice versa.
DUST CAP : Protects stem threads from
 contamination.
 Color Coded Identification.

SPECIFICATIONS

- SIZE** : 1/4" to 1".
END CONNECTIONS : Screwed - NPT (std.),
 BSPT,
 Socket-weld
 and Tube OD Ends.
PATTERN : Straight and Angle.
MAX. WORKING PR. : 6000 PSI (413 BAR).
PACKING & TEMP. : PTFE - 450°F (232°C),
 GRAPHOIL - 700°F (371°C).
MATERIAL : SS-316, SS-304, C.S.,
 Hastelloy, Monel,
 Inconel, etc.

Valves can be manufactured to meet the specifications as per NACE MR01-75.

All the Valves are 100% Inspected and Tested for their Working Pressure, prior to shipment.



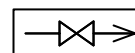
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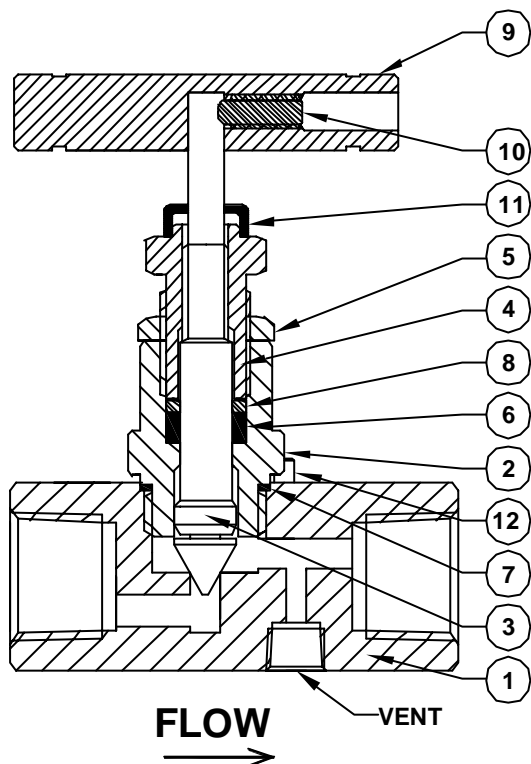
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 Ph. no.: 91-022-2344 3348 Fax no.: 91-022-2341 4216 E-mail: apurvaenterprises@gmail.com

SCREWED BONNET NEEDLE VALVE with VENT

MODEL : AESNVV



SCHEMATIC



NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	BONNET	1	SS 316
3	STEM	1	SS 316
4	BONNET PUSHER	1	SS 316
5	LOCK NUT	1	SS 316
6	PACKING	1	PTFE
7	BONNET SEAL	1	PTFE
8	WASHER	1	SS 316
9	HANDLE	1	SS 304
10	GRUB SCREW	1	Steel
11	DUST CAP	1	PLASTIC
12	LOCKING PIN	1	SS 316

FEATURES

- DESIGN** : Screwed bonnet.
BONNET : Back seat blowout proof.
STEM : Roll threaded stem.
STEM TIP : Rotating
 Self Centering Non Rotating,
 Regulating and Soft Seated.
PACKING : Packing below the Stem
 threads ensures that the
 media thru the valve does
 not come in contact with the
 thread lubricant and vice versa.
DUST CAP : Protects stem threads from
 contamination.
 Color Coded Identification.

SPECIFICATIONS

- SIZE** : 1/4" to 1".
END CONNECTIONS : Screwed - NPT (std.),
 BSPT,
 Socket-weld
 and Tube OD Ends.
VENT PORT : 1/4" NPT (F).
PATTERN : Straight and Angle.
MAX. WORKING PR. : 6000 PSI (413 BAR).
PACKING & TEMP. : PTFE - 450°F (232°C),
 GRAPHOIL - 700°F (371°C).
MATERIAL : SS-316, SS-304, C.S.,
 Hastelloy, Monel,
 Inconel, etc.

Valves can be manufactured to meet the specifications as per NACE MR01-75.

All the Valves are 100% Inspected and Tested for their Working Pressure, prior to shipment.



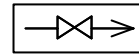
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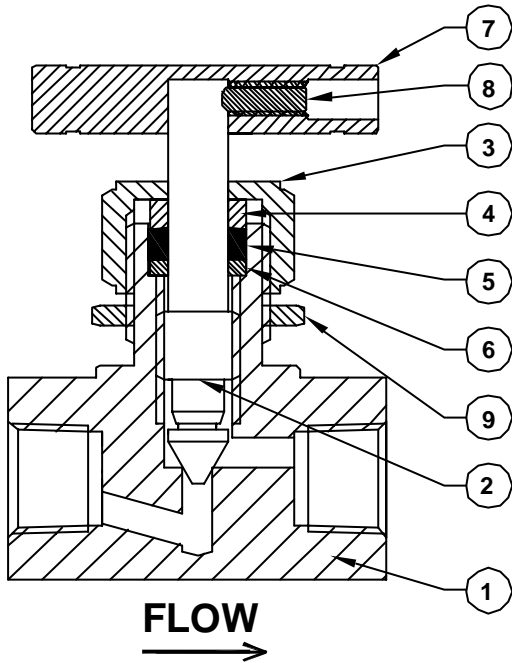
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INTEGRAL BONNET NEEDLE VALVE

MODEL : AEINV



SCHEMATIC



NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	STEM	1	SS 316
3	GLAND NUT	1	SS 316
4	GLAND	1	SS 316
5	PACKING	1	PTFE
6	WASHER	1	SS 316
7	HANDLE	1	SS 304
8	GRUB SCREW	1	Steel
9	PANEL NUT	1	SS 316

FEATURES

DESIGN : Integral bonnet.
BODY : Forged.
STEM : Roll threaded Stem.
STEM TIP : Rotating,
 Self Centering Non Rotating,
 Regulating and Soft Seated.
MOUNTING : Panel Mounted design.

SPECIFICATIONS

SIZE : 1/4" to 1".
END CONNECTIONS : Screwed - NPT (std.),
 BSPT,
 Socket-weld
 and Tube OD Ends.
PATTERN : Straight and Angle.
MAX. WORKING PR. : 6000 PSI (413 BAR).
PACKING & TEMP. : PTFE - 450°F (232°C),
 GRAPHOIL - 700°F (371°C).
MATERIAL : SS-316, SS-304, C.S.,
 Hastelloy, Monel,
 Inconel, etc.

Valves can be manufactured to meet the specification as per NACE MR01-75 .

All the Valves are 100% Inspected and Tested for their Working Pressure, prior to shipment.



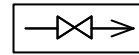
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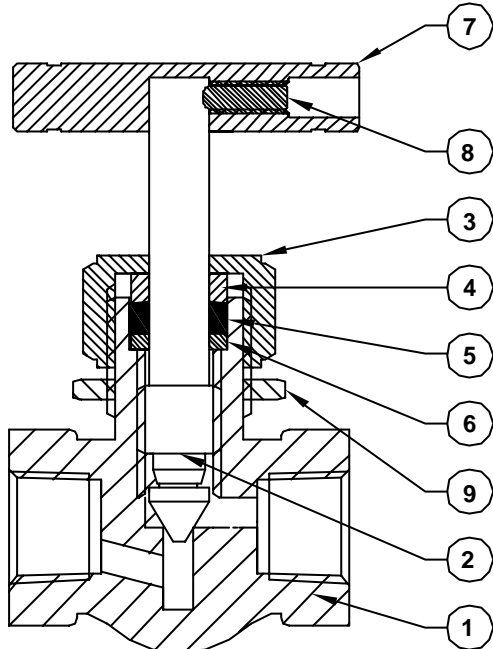
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FORGED BODY NEEDLE VALVE

MODEL : AEFNV



SCHEMATIC



FLOW
→

NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	STEM	1	SS 316
3	GLAND NUT	1	SS 316
4	GLAND	1	SS 316
5	PACKING	1	PTFE
6	WASHER	1	SS 316
7	HANDLE	1	SS 304
8	GRUB SCREW	1	Steel
9	PANEL NUT	1	SS 316

FEATURES

DESIGN : Integral bonnet.
BODY : Forged.
STEM : Roll threaded Stem.
STEM TIP : Rotating,
 Self Centering Non Rotating,
 Regulating and Soft Seated.
MOUNTING : Panel Mounted design.

SPECIFICATIONS

SIZE : 1/4" to 1".
END CONNECTIONS : Screwed - NPT (std.),
 BSPT,
 Socket-weld
 and Tube OD Ends.
PATTERN : Straight.
MAX. WORKING PR. : 6000 PSI (413 BAR).
PACKING & TEMP. : PTFE - 450°F (232°C),
 GRAPHOIL - 700°F (371°C).
MATERIAL : SS-316, SS-304, C.S.,
 Hastelloy, Monel,
 Inconel, etc.

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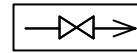
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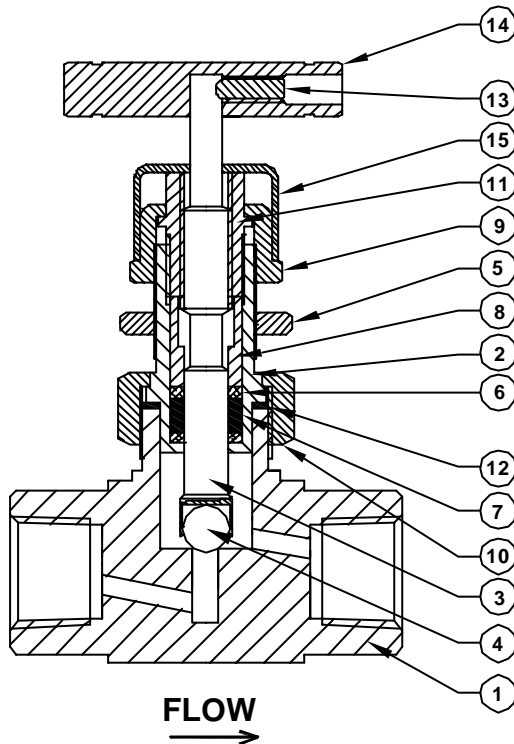
UNION BONNET NEEDLE VALVE SS

(Severe Service)

MODEL : AEUNVSS



SCHEMATIC



NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	BONNET	1	SS 316
3	STEM	1	SS 316
4	BALL TIP	1	SS 316
5	PANEL NUT	1	SS 316
6	PACKING SUPPORT	2	GLASS FILLED PTFE
7	PACKING	1	PTFE/GRAFOIL
8	GLAND BUSH	1	SS 316
9	UNION NUT	1	SS 316
10	LOCK NUT	1	SS 316
11	PACKING BOLT	1	SS 316
12	BONNET SEAL	1	PTFE
13	GRUB SCREW	1	SS
14	HANDLE	1	SS 304
15	DUST CAP	1	PLASTIC

FEATURES

- DESIGN** : Union bonnet.
- BONNET** : Back Seat - Blow-Out Proof.
- STEM** : Ground and Rolled stem operating threads.
- STEM TIP** : Non Rotating Ball Tip.
- PACKING** : Packing below the Stem threads ensures that the media thru the valve does not come in contact with the thread lubricant and vice versa.
- DUST CAP** : Protects stem threads from contamination.
Color Coded Identification.

SPECIFICATIONS

- SIZE** : 1/4" to 1".
- END CONNECTIONS** : Screwed - NPT (std.), BSPT, Socket-weld and Tube OD Ends.
- PATTERN** : Straight and Angle.
- MAX. WORKING PR.** : 10,000 PSI (689 BAR).
- PACKING & TEMP.** : PTFE - 450°F (232°C), GRAFOIL - 700°F (371°C).
- MATERIAL** : SS-316, SS-304, C.S., Hastelloy, Monel, Inconel, etc.

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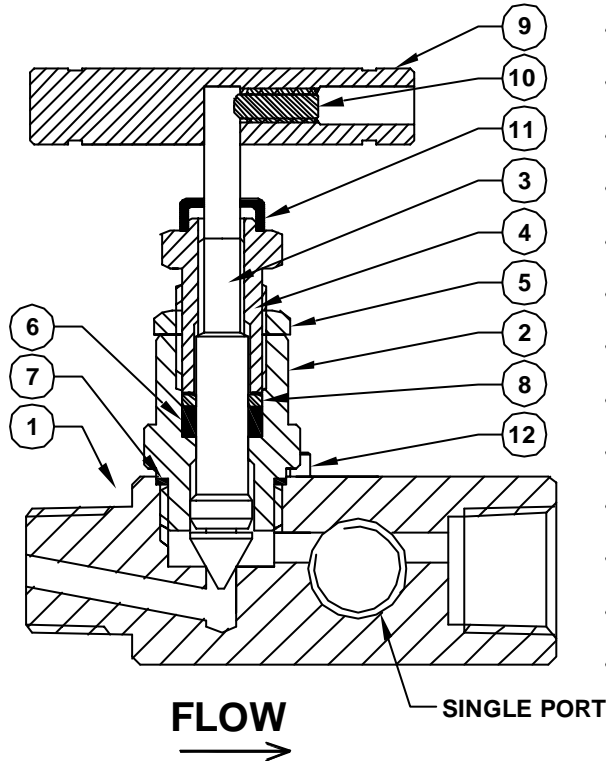
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SINGLE PORT GAUGE NEEDLE VALVE

MODEL : AESPGNV



SCHEMATIC



NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	BONNET	1	SS 316
3	STEM	1	SS 316
4	BONNET PUSHER	1	SS 316
5	LOCK NUT	1	SS 316
6	PACKING	1	PTFE
7	BONNET SEAL	1	PTFE
8	WASHER	1	SS 316
9	HANDLE	1	SS 304
10	GRUB SCREW	1	Steel
11	DUST CAP	1	PLASTIC
12	LOCKING PIN	1	SS 316

FEATURES

- DESIGN** : Screwed bonnet.
BONNET : Back seat blowout proof.
STEM : Roll threaded stem.
STEM TIP : Rotating
 Self Centering Non Rotating,
 Regulating and Soft Seated.
PACKING : Packing below the Stem
 threads ensures that the
 media thru the valve does
 not come in contact with the
 thread lubricant and vice versa.
DUST CAP : Protects stem threads from
 contamination.
 Color Coded Identification.

SPECIFICATIONS

- SIZE** : 1/4", 3/8" and 1/2".
END CONNECTIONS : Screwed - NPT (std.),
 BSPT,
 and Tube OD Ends.
GAUGE PORT : 1/2" NPT (F) - Standard.
 1/4" NPT (F) - Optional for
 Vent / Bleed.
PATTERN : Straight.
MAX. WORKING PR. : 6000 PSI (413 BAR).
PACKING & TEMP. : PTFE - 450°F (232°C),
 GRAPHOIL - 700°F (371°C).
MATERIAL : SS-316, SS-304, C.S.,
 Hastelloy, Monel,
 Inconel, etc.

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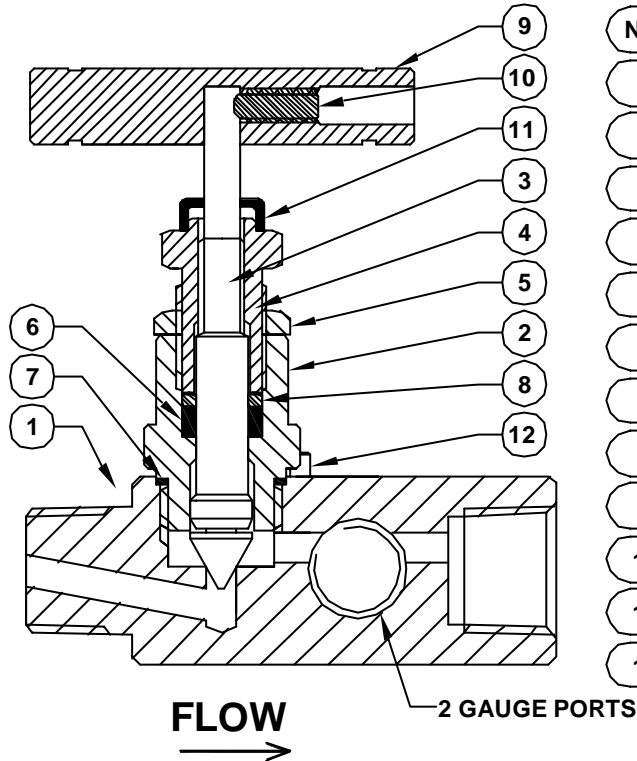
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MULTI PORT GAUGE NEEDLE VALVE

MODEL : AEMPGNV



SCHEMATIC



NO	DESCRIPTION	QTY	MATERIAL
1	BODY	1	SS 316
2	BONNET	1	SS 316
3	STEM	1	SS 316
4	BONNET PUSHER	1	SS 316
5	LOCK NUT	1	SS 316
6	PACKING	1	PTFE
7	BONNET SEAL	1	PTFE
8	WASHER	1	SS 316
9	HANDLE	1	SS 304
10	GRUB SCREW	1	Steel
11	DUST CAP	1	PLASTIC
12	LOCKING PIN	1	SS 316

FEATURES

- DESIGN** : Screwed bonnet.
BONNET : Back seat blowout proof.
STEM : Roll threaded stem.
STEM TIP : Rotating
 Self Centering Non Rotating,
 Regulating and Soft Seated.
PACKING : Packing below the Stem
 threads ensures that the
 media thru the valve does
 not come in contact with the
 thread lubricant and vice versa.
DUST CAP : Protects stem threads from
 contamination.
 Color Coded Identification.

SPECIFICATIONS

- SIZE** : 1/4", 3/8" and 1/2".
END CONNECTIONS : Screwed - NPT (std.),
 BSPT
 and Tube OD Ends.
GAUGE PORTS : 1/2" NPT (F).
PATTERN : Straight.
MAX. WORKING PR. : 6000 PSI (413 BAR).
PACKING & TEMP. : PTFE - 450°F (232°C),
 GRAPHOIL - 700°F (371°C).
MATERIAL : SS-316, SS-304, C.S.,
 Hastelloy, Monel,
 Inconel, etc.

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