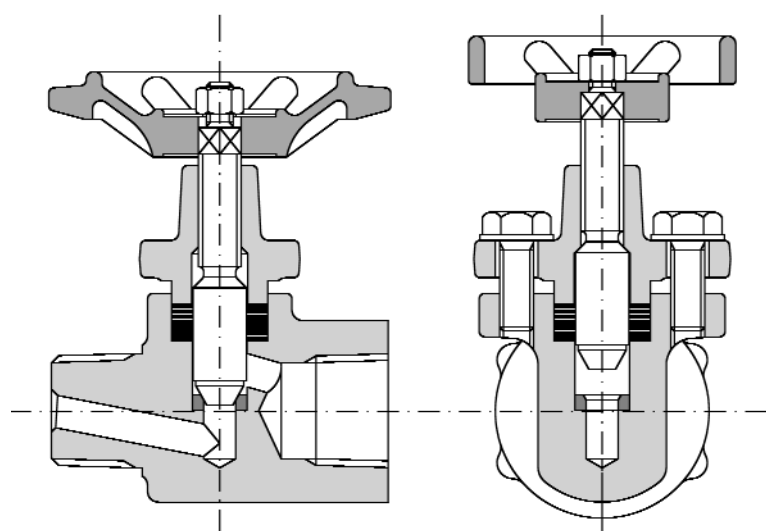


BONETTI®



BONT®

**Forged Steel
Instrumentation
Valves**

- type VS3 - 3000 psi
- type VS6 - 6000 psi

A wide international sales network

Please apply for more information about our International Technical Sales Organisation



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BONT® Valves type VS

APPLICATION RANGE

The BONT® Valves type VS are needle valves recommended for instrumentation and for any throttling and shut-off service.

DESIGN PRINCIPLES

BONT® Valve type VS is a metal to metal seat needle valve having 6 mm seat diameter.

- Forged body and bonnet
- Bolted bonnet connection
- Outside screw, therefore threads not in contact with the fluid avoiding corrosion and assuring smooth operation
- Blowout-proof and backseating stem
- Non-rotating disk, made of ASTM A479 316 nitrided assure perfect sealing and resistance to erosion
- Packing patented, preformed from graphite and stainless steel sheets guarantees perfect seal towards the atmosphere and does not require any maintenance
- Adjustable packing
- Low torque due to special packing and non-rotating disk
- Ideal for areas where danger of fire exists.

RATING

BONT® Valves type VS are manufactured in two types:

- type VS3 - 3000 psi at 100 °F (210 bar at 38 °C)
- type VS6 - 6000 psi at 100 °F (420 bar at 38 °C).

Maximum working temperatures depend on the body and bonnet material:

- Body and bonnet of ASTM A105:
Material Schedule 52: Max Temp. 425 °C
- Body and bonnet of ASTM of S.S. ASTM A182 F316:
Material Schedule 63: Max Temp. 550 °C.

BONT®, Valves type VS are in accordance with Standard Practice MSS SP-99 - Instrument Valves.

CONNECTIONS

Standard connections are:

- threaded as per ASME B1.20.1
- socket weld as per ASME B16.11

The connection sizes are listed in the following table:

Type	Input	Output	Dimension (mm)			Fig.
			A	G	H	
VS3	1/2" M	1/2" F	63	64	71	550
	1/2"	1/2"	70	64	71	551
	3/4"	3/4"	70	64	71	551
VS6	1/2"	1/2"	70	64	71	551
	3/4"	3/4"	70	64	71	551

Valve VS3 of Fig. 550 can be supplied only with the ends threaded male-female.

Other connection available on request.

MATERIAL SCHEDULES

VS Valves are manufactured in different Material Schedules. The main characteristic elements of the more diffused Material Schedules are:

Material Schedule	Material of Body and Bonnet
52	Carbon Steel ASTM A105
63	Stainless Steel ASTM A182 F316

Fig. 550

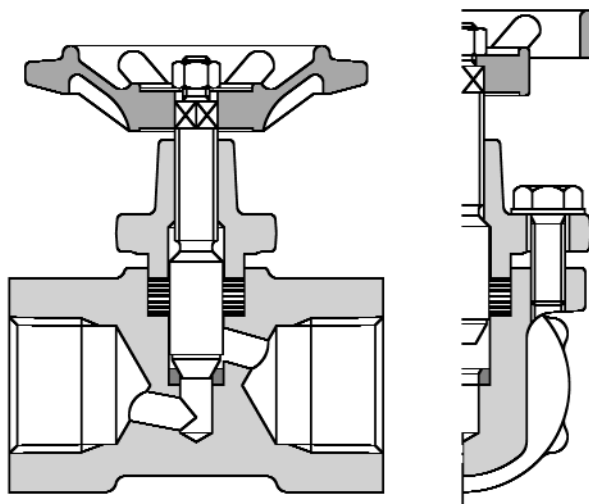
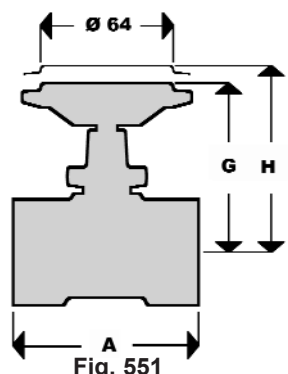
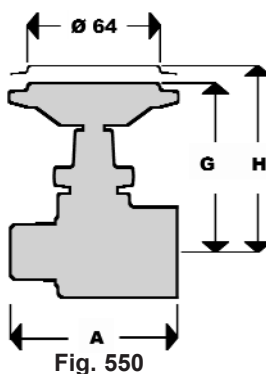
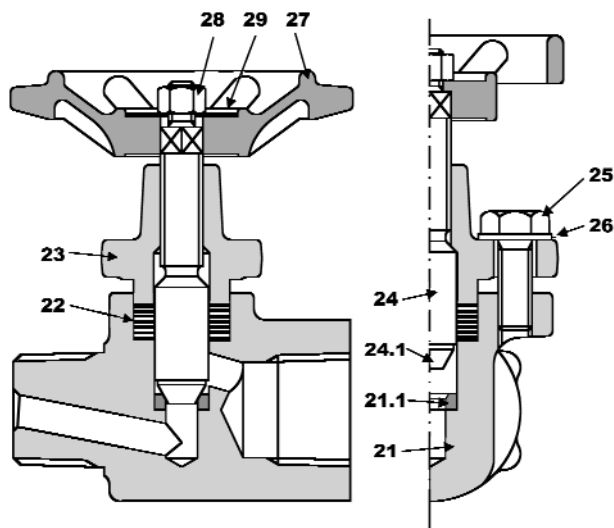


Fig. 551

Item Part	Part Material for Material Schedule	
	52	63
21 Body	ASTM A105	ASTM A182 F316
21.1 Seat	ASTM A479 316	integral
22 Packing	Graphite + S.S.	Graphite + S.S.
23 Bonnet	ASTM A105	ASTM A182 F316
24 Stem	ASTM A182 F6a	ASTM A479 316 Nitr.
24.1 Disk	ASTM A479 316 Nitr.	ASTM A479 316 Nitr.
25 Screw	ASTM A193 B7	ASTM A193 B8
26 Washer	Carbon Steel	Carbon Steel
27 Handwheel	Aluminium	Aluminium
28 Handwheel Nut	Carbon Steel	Carbon Steel
29 Name Plate	Stainless Steel	Stainless Steel