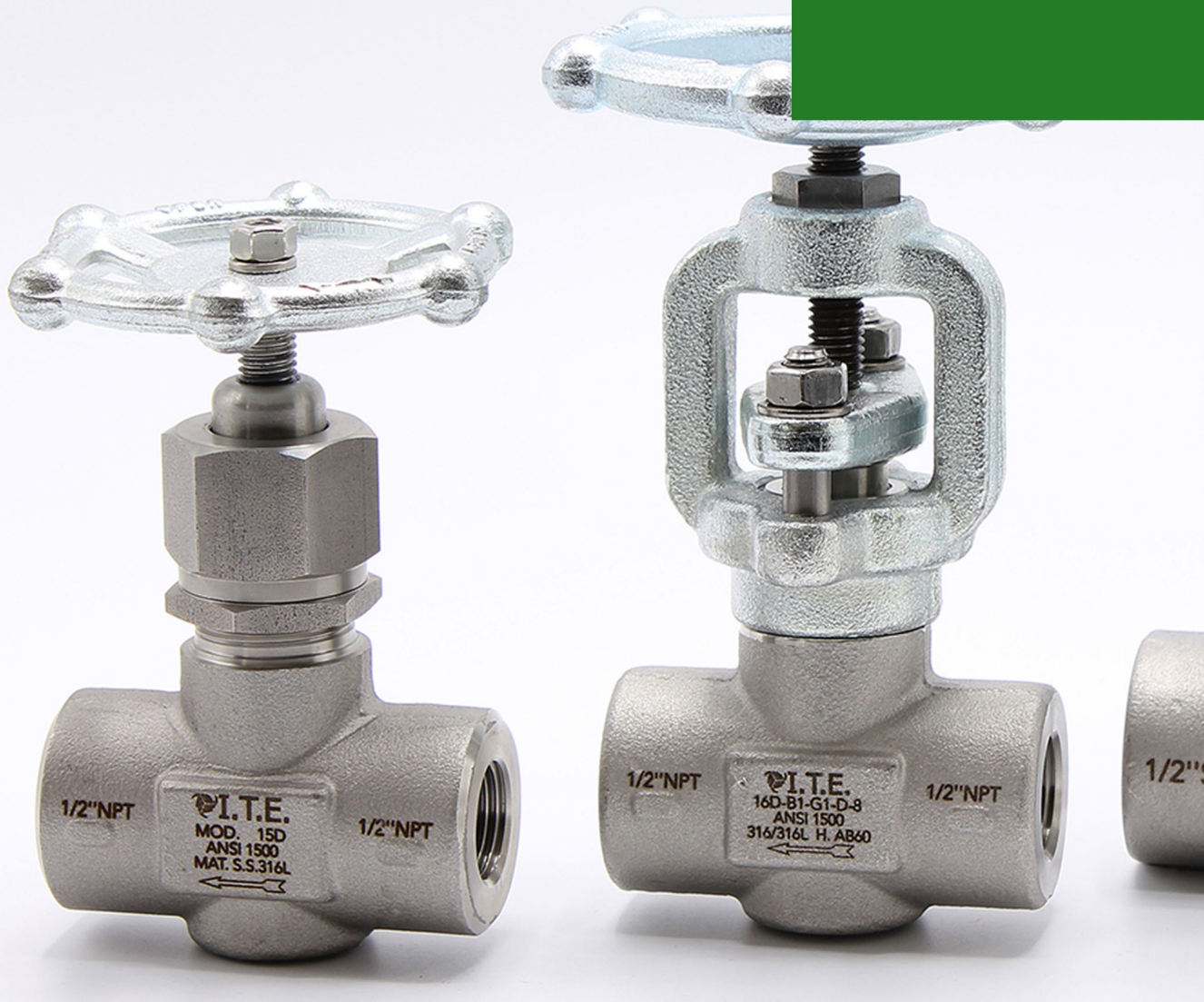


FORGED GLOBE NEEDLE



ITE.
INDUSTRIAL TECHNICAL EQUIPMENT

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FEATURES

Across years of experience in instrumentation sector and increasing its know-how, today I.T.E. is able to offer a wide range of manual instrument valves and accessories for several application and sector. All products shown on this catalogue are available with integral compression ends (performance system improved, safety factors, size and weight reduction). R&D dept. is constantly committed to refining and improving the quality of the products.

STANDARD FEATURES

Forged Valve Body

Integral Bonnet. Integral seat with body.

Rising Stem with external screw integral to the plug

Packing in Graphite (suitable up to 600°C)

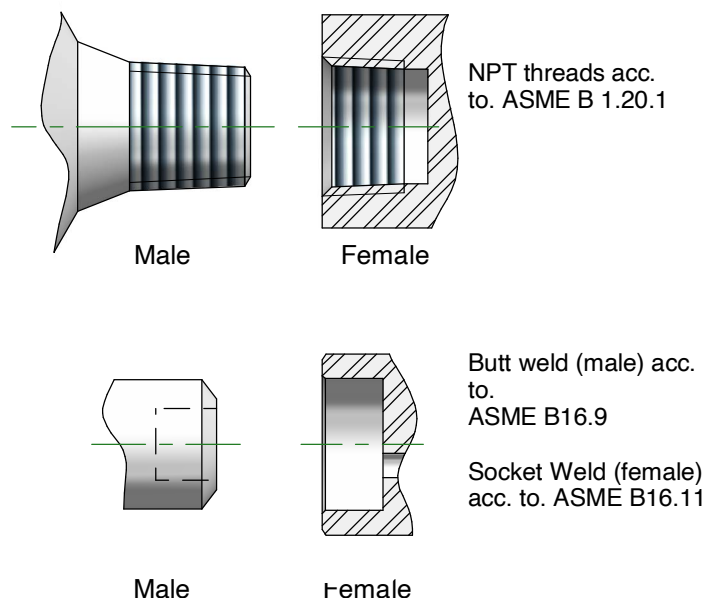
Size from 1/4" up to 1". Rating Class 800/1500/2500 (up to size 1"). 4500 on request (up to size 1/2")

Wetted parts according to **NACE MR.0175/MR.0103** as standard.

Shell test and seat leakage test are performed according to **API 598** and **ASME B16.34** (1.5 of max rating pressure).

Certificate 3.1 certificate according to EN 10 204 on valve body material.

STANDARD CONNECTION



MATERIAL

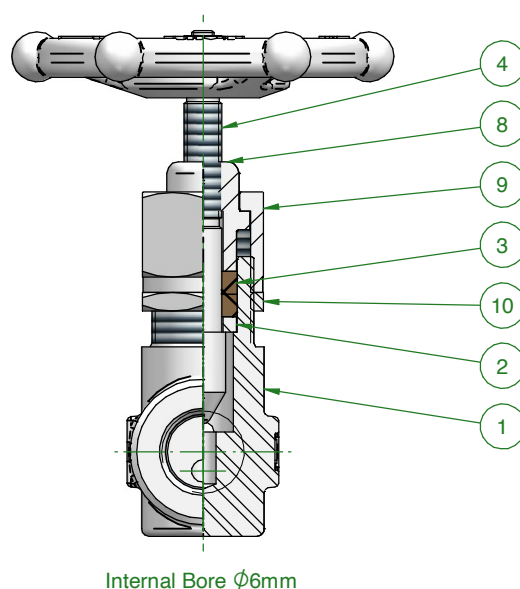
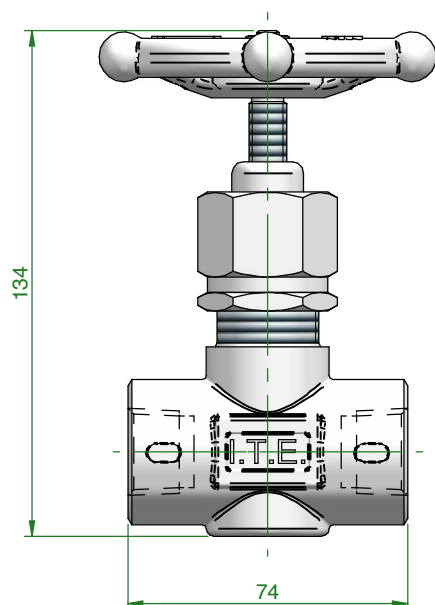
	I.T.E. DESIGNATION	ASTM	UNS	AVAILABILITY ON STOCK
Stainless steel	F304L	F304L	S30400	YES
	F316/F316L	F316/F316L	S31600	YES
	F316Ti	F316Ti	S31635	ON REQUEST
	F321	F321	S31100	ON REQUEST
Carbon steel	LF2	LF2	K03011	ON REQUEST
	A105	A105	K03504	YES
Alloy Steel	F11	F11	K11597	YES
	F22	F22	K21590	ON REQUEST
	F91	F91	K90901	ON REQUEST



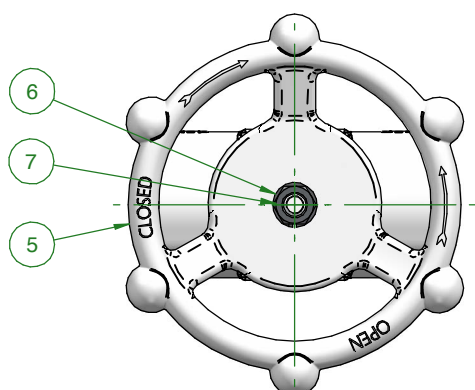
15D



Globe valves are designed to ensure precise control of fluid, gas, and steam flow across a wide range of industrial and civil installations. Thanks to their robust and reliable construction, they offer high performance in terms of pressure and temperature resistance, with a tight and secure seal. The globe design allows for smooth and consistent regulation, making them ideal for applications requiring accurate flow control.



Internal Bore $\phi 6\text{mm}$



BILL OF MATERIALS

AISI F316L STANDARD MODEL

POS.	DESCRIPTION	MATERIAL	QTY
1	1/2" NPT BODY	AISI 316L	1
2	GASKET RING	AISI 316L	1
3	GASKET	GRAPHOIL	2
4	STEM	AISI 316L	1
5	HANDWHEEL *	ASTM A105	1
6	SPLIT WASHER M6 - DIN 125 B	A2	1
7	HEXAGONAL NUT M6 - UNI 5587	A2	1
8	BUSHING	AISI 316L	1
9	BUSHING	AISI 316L	1
10	ADJUSTER NUT	AISI 316L	1

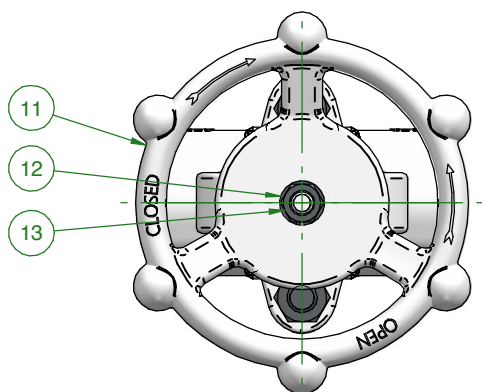
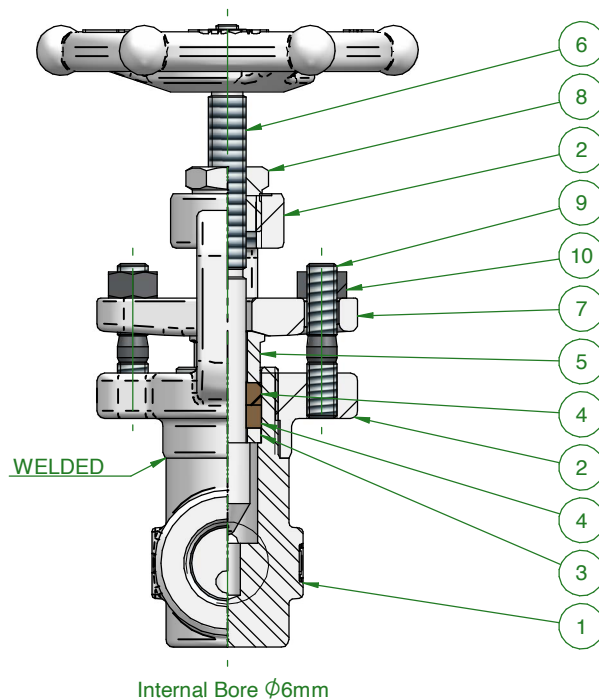
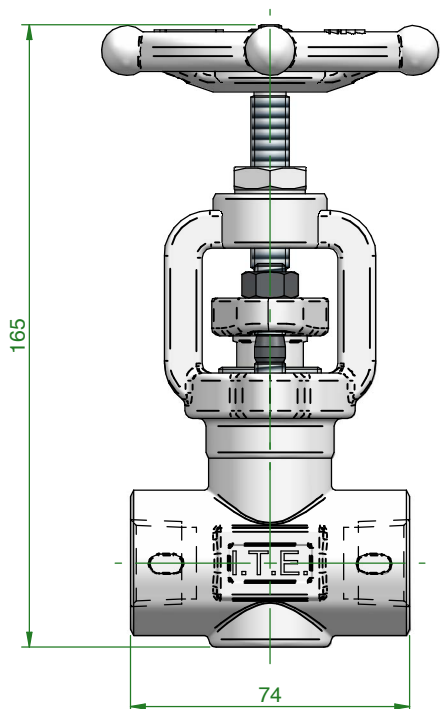
*Note: The following materials remain unchanged regardless of the material selected in the table on page 10.



16D



Mainly used on steam application, high pressure and high temperature, our globe needle valves are realized with body completely in forged material for providing a longer valve service life and keeping the plant environment safe. Every globe needle valve incorporates special features to maximize performance. *We are showing on this page just the standard types.*



BILL OF MATERIALS

AISI F316L STANDARD MODEL

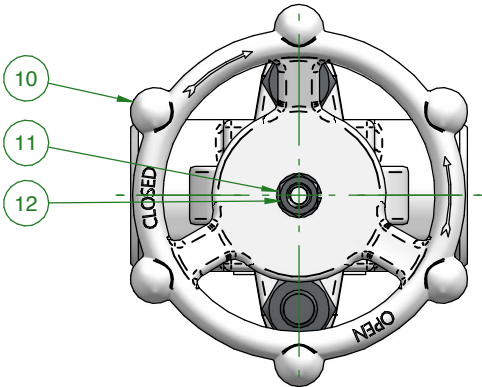
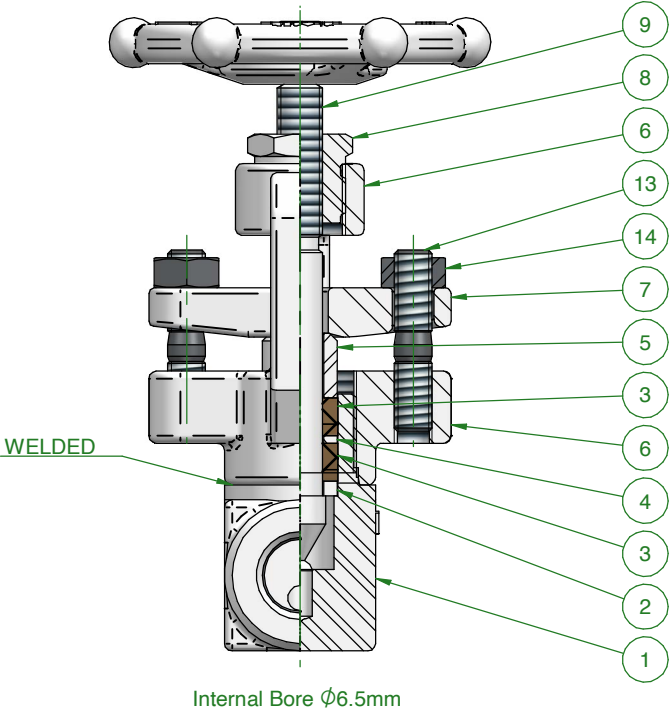
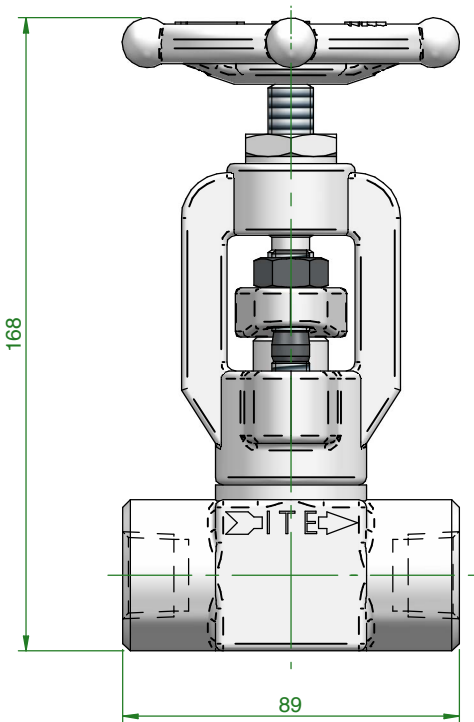
POS.	DESCRIPTION	MATERIAL	QTY
1	1/2" NPT BODY	AISI 316L	1
2	BODY BONNET *	ASTM A105	1
3	GASKET RING	AISI 316L	1
4	GASKET	GRAPHOIL	2
5	BONNET GLAND ADJUSTER	AISI 316L	1
6	STEM	AISI 316L	1
7	BONNET ADJUSTER *	ASTM A105	1
8	BUSHING	AISI 316L	1
9	THREADED ROD M8x25 - UNI 5914	A2	2
10	HEXAGONAL NUT M8 - DIN 934	A2	2
11	HANDWHEEL *	ASTM A105	1
12	SPLIT WASHER M6 - DIN 125 B	A2	1
13	HEXAGONAL NUT M6 - UNI 5587	A2	1

*Note: The following materials remain unchanged regardless of the material selected in the table on page 10.



Globe valves are available in various materials to meet the demands of different operational environments, with options that ensure durability even in corrosive and high-pressure conditions. The models in this catalog include versions with specific features, such as the ability to operate in high-temperature environments or with particularly aggressive fluids

25D



BILL OF MATERIALS			
AISI F316L STANDARD MODEL			
POS.	DESCRIPTION	MATERIAL	QTY
1	1/2" NPT BODY	AISI 316L	1
2	GASKET RING	AISI 316L	1
3	GASKET	GRAPHOIL	2
4	GASKET RING	AISI 316L	1
5	BONNET GLAND ADJUSTER	AISI 316L	1
6	BODY BONNET *	ASTM A105	1
7	BONNET ADJUSTER *	ASTM A105	1
8	BUSHING	AISI 316L	1
9	STEM	AISI 316L	1
10	HANDWHEEL *	ASTM A105	1
11	SPLIT WASHER M6 - DIN 125 B	A2	1
12	HEXAGONAL NUT M6 - UNI 5587	A2	1
13	THREADED ROD M10x28 - UNI 5914	A2	2
14	HEXAGONAL NUT M10 - DIN 934	A2	2

*Note: The following materials remain unchanged regardless of the material selected in the table on page 10.



GLOBE VALVES - HOW TO ORDER

1 6 D - A 1 - G 1 - O - 8

MODEL

15D Globe needle valve Ansi 1500 - 2000
16D Globe O.S.&Y. needle valve Ansi 1500
25D Globe O.S.&Y. needle valve Ansi 2500
...

TRIM

A1 Seat + trim Stellite S6
B1 Seat + trim standard material
C1 Seat: std. Material / Trim: Stellite S6

PACKING

G1 Graphoil

INLET/OUTLET

IN	OUT	NPT-F x NPT-F	NPT-M x NPT-F	SW x SW	SW x NPT-F
1/4" x 1/4"		A	H	O	V
1/4" x 1/2"		B	I	P	W
1/2" x 1/4"		C	J	Q	X
1/2" x 1/2"		D	K	R	Y
3/4" x 1/2"		E	L	S	Z
3/4" x 3/4"		F	M	T	AA
1" x 1"		G	N	U	BB

MATERIAL

1 ASTM A105	6 ASTM A182 F304L
2 ASTM A182 F11	7 ASTM A182 F316
3 ASTM A182 F22	8 ASTM A182 F316L
4 ASTM A182 F91	9 ASTM A182 F316 Ti
5 ASTM A350 LF2	10 ASTM A182 F321

Note: In models **16D** and **25D**, the material of the components marked with "*" on the respective example pages does not vary, regardless of the material selected in this table.

Attention - Above guideline show s all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and processing your order

