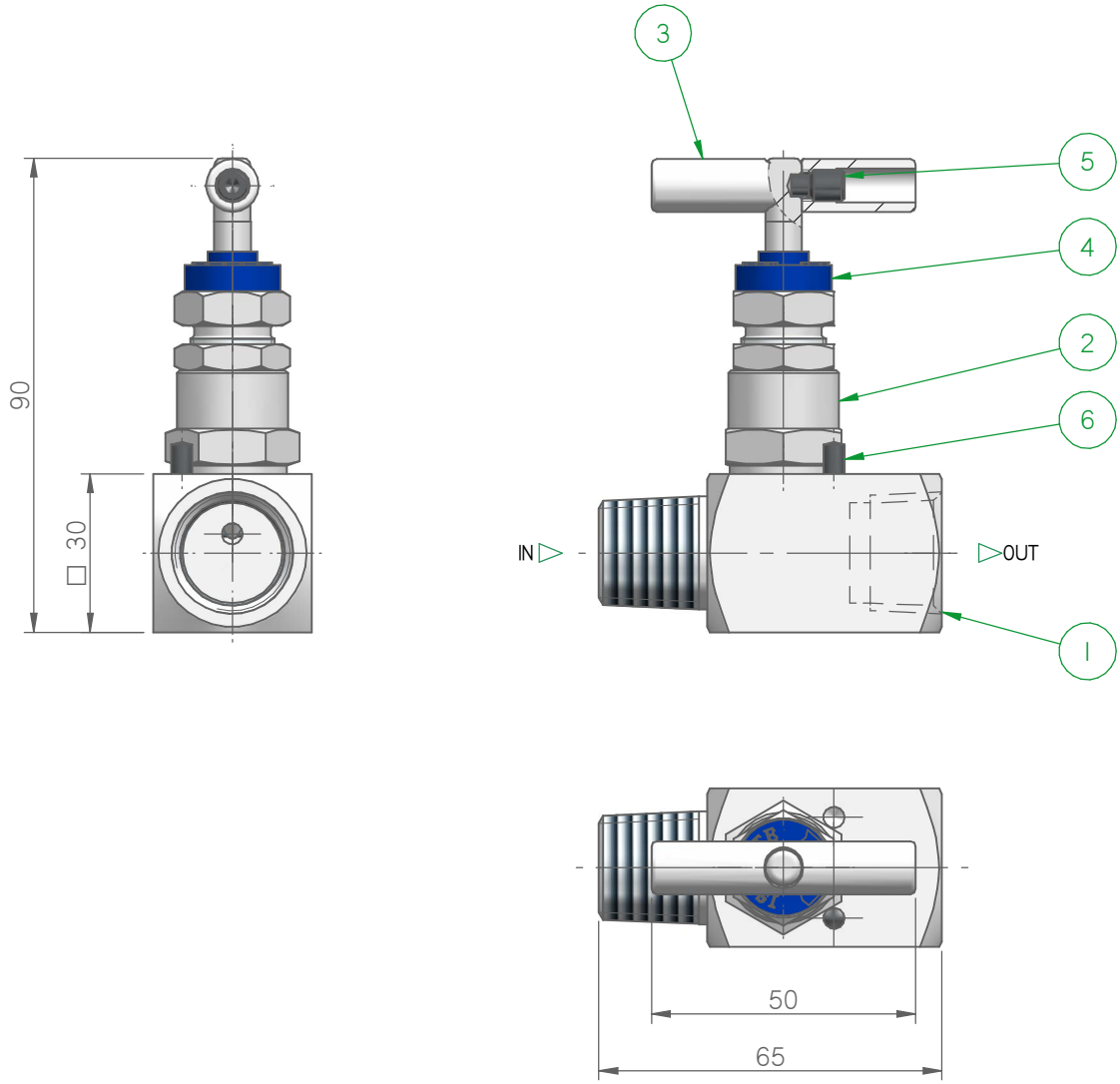
I.T.E.
INDUSTRIAL TECHNICAL EQUIPMENT

Bar stock needle valve designed for operation with any fluid.




Example for a typical product. The dimensions shown in this datasheet apply to standard types. If you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

## BILL OF MATERIALS

| POS. | DESCRIPTION | MATERIAL | QTY |
|---|---|---|---|
| 1 | BODY VLV. MOD. V42 1/2" NPT | AISI 316L | 1 |
| 2 | BONNET 316L/PTFE | AISI 316L / PTFE | 1 |
| 3 | T HANDLE 50mm | AISI 303 | 1 |
| 4 | DUST CUP | HYTREL BLU | 1 |
| 5 | NO HEAD SCREW M6x10 - 45H - DIN 915 | A2 | 1 |
| 6 | PIN 4X12 - ISO 8741 | A2 | 1 |

## MODEL

| MODEL | RATING | MATERIAL | PACKING | IN | OUT | INSIDE DIAMETER | NOTE |
|---|---|---|---|---|---|---|---|
| V42 | 3/6/10K psi | AISI 316L* | PTFE* | 1/2" NPT* | 1/2" NPT* | 4mm/0,15in* | *for more options see next sheet |

The dimensions shown apply only to the illustrated valve – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

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NEEDLE VALVE

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## STANDARD FEATURES

PTFE and GRAPHOIL packing avaible for all valve types.

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.

Valves and manifold are not supplied with plugs unless specified

## SPECIAL FEATURES

O-Ring packing

**Oxygen service** PTFE packing cleaned and degreased

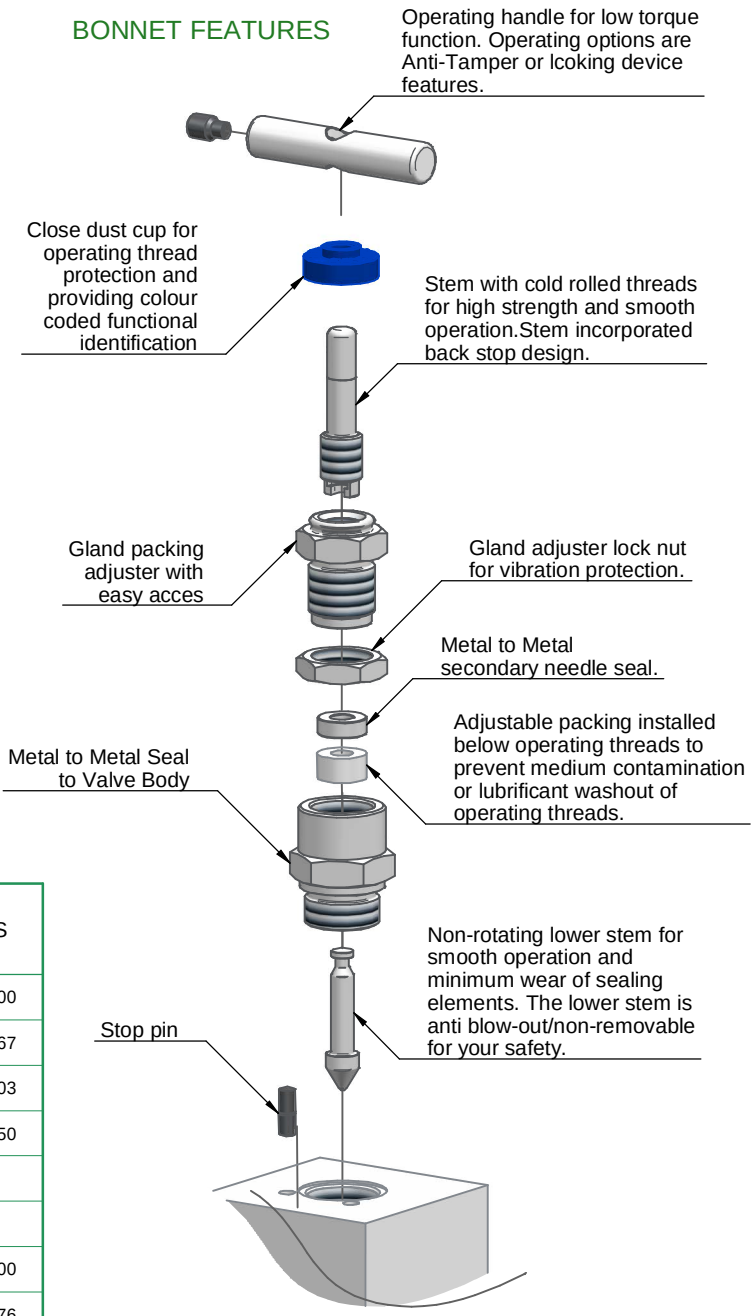
## MATERIAL

| MATERIAL GROUP | I.T.E. DESIGNATION | ASTM | UNS |
|---|---|---|---|
| Stailess Steel | 316/316L | 316/316L | S31600 |
| | 6Mo | | N08367 |
| Ferritic Stainless Steel | Duplex | F51 | S31803 |
| | Superduplex | F55 | S32750 |
| Carbon Steel | LF2 | LF2 | |
| | A105 | A105 | |
| Alloy | Alloy 400 | | N04400 |
| | Alloy C276 | | N10276 |
| | Alloy 625 | | N06625 |
| | Alloy 825 | | N08825 |
| Titanium | Ti Gr.2 | | R50400 |

## CONNECTIONS

NPT threads acc. to. ASME B 1.20.1
BSPT threads acc. to. ISO 7/1
BSPP threads acc. to.ISO 228-1/ISO 1179-1
Metric threads acc. to. ISO 261
G Threads acc. to. ISO 228-1/EN 837-1
Butt weld (male) acc. to. ASME B16.9
Socket Weld (female) acc. to. ASME B16.11

## BONNET FEATURES




- Maximum standard pressure up to 6.000 psig (414 barg).
- Maximum optional pressure up to 10.000 psig (689barg).
- Temperature range -54°C to +530°C.
- PTFE standard gland packing (Graphoil optional).
- Max. temperature PTFE 260°C.
- Max. temperature Graphoil 530°C.
- Low operating torque.
- Packing below threads to prevent lubricant washout.

NEEDLE VALVE

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