



## Model: 6N and 10N

The Model 6N Needle Valves have been designed to give higher strength and integrity to instrument needle valves. Budenberg have incorporated a dynamic multi-ring gland system in the needle valve, which when combined with the anti blow-out back seating stem, guarantees resistance to all operating processes and pressures.

Low operating torques and high cycle life feature strongly in this unique Budenberg design, giving a "Low Cost of Ownership".

### Key Benefits are:

100% gas tight seal under all conditions.

- Over designed high strength adaptor threads combine with 'soft' parent metal bottom seal to give closure thread protection and ensures environmental safety
- Gland and stem leakage is a thing of the past due to the dynamic multi-ring gland system, combined with the anti blow-out back seating system
- Swaged self centering non-rotating stem tip in one material grade harder than the parent body material. This ensures a positive seat closure under all conditions.

### Needle Valve Construction

#### Body Material

316 Stainless Steel to NACE as standard, other materials available

#### Standard Connection Sizes

1/4", 3/8", 1/2", 3/4" & 1" NPT Female x Female

1/4", 3/8", 1/2", 3/4" & 1" NPT Male x Female

Other thread sizes and types are available, please contact our sales office for details.

#### Standard Bore Sizes

6mm & optionally 8mm

#### Stem Packing

Multi stage 'dynamic' stem packing in PTFE / RPTFE to guarantee a gas tight seal under all conditions. Maximum Temperature of 240° C for PTFE packed units and 540° C for units packed with flexible graphite.

#### Conformity

Design conformity to ASME B31.1

Pressure & Temperature ratings as ANSI B 16.34 Class 2500

Fire safe option to BS 6755 pt2

#### Certification Available

BS EN 10204 3.1B & 3.2 Material Certification

PMI and NDT Test Certification

Full range of certification and testing to suit the user requirements.

## NEEDLE VALVE - PROCESS INDUSTRY



### Needle Valve Features

Self centring, non rotating stem point

Vibration proof handle with positive location and excess torque break feature

Fire safe design to BS 6755 Pt 2

Anti static, anti blow-out stem

Multi-stage 'dynamic' stem packing

True 'metal to metal' Body / Bonnet joint

Mechanically locked Valve Bonnet to prevent accidental removal

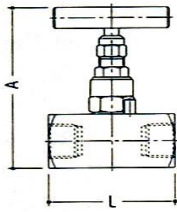
Max cold working pressure of 6,000 psi (6N) and 10,000 psi (10N)

All options available, full range of materials, thread types and sizes

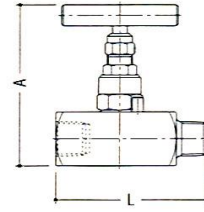
Your Company name and model type etched on Valve body

Vented models available

**Single Isolating Valves**



**6 NF**  
Female x Female



**6 NM**  
Male x Female

Single Isolating Valve		Female x Female		
Model No		L	A	Weight
6N4F4FS	1/4" Female x 1/4" Female	60mm	90mm	0.45kg
6N6F6FS	3/8" Female x 3/8" Female	66mm	90mm	0.55kg
6N8F8FS	1/2" Female x 1/2" Female	66mm	90mm	0.65kg
6N12F12FS	3/4" Female x 3/4" Female	74mm	90mm	0.65kg
6N16F16FS	1" Female x 1" Female	86mm	109mm	0.65kg

Single Isolating Valve		Male x Female		
Model No		L	A	Weight
6N4M4FS	1/4" Male x 1/4" Female	67mm	90mm	0.45kg
6N6M6FS	3/8" Male x 3/8" Female	92mm	90mm	0.55kg
6N8M8FS	1/2" Male x 1/2" Female	92mm	90mm	0.65kg
6N12M12FS	3/4" Male x 3/4" Female	98mm	97mm	0.65kg
6N16M16FS	1" Male x 1" Female	102mm	109mm	0.65kg

**Options**

10,000 Psi option available prefix by 10 i.e 10NF & Blanking / Vent Plug

Specifications and dimensions in this leaflet, are subject to change without prior notice.