



# Truflo

## Nuclear Valves

Specialist Engineers & Manufacturers  
of High Integrity Valves and Actuators

A Subsidiary Company of

**IMI**

**Truflo is dedicated to the production of high integrity valves and actuators for use in critical and severe service applications. We are specialist designers, manufacturers and project managers with extensive experience in providing bespoke products to suit the customer's specific needs.**

Truflo valves are installed in critical applications all over the world, from nuclear power plants to naval ships & submarines. We pride ourselves on the reliability and integrity of our products, putting them through extensive testing and validation procedures so that our customers can be rest assured that Truflo guarantee the highest quality possible.

With nearly 50 years of experience and a highly skilled team of engineers and manufacturing staff, Truflo is the safest choice for your project.

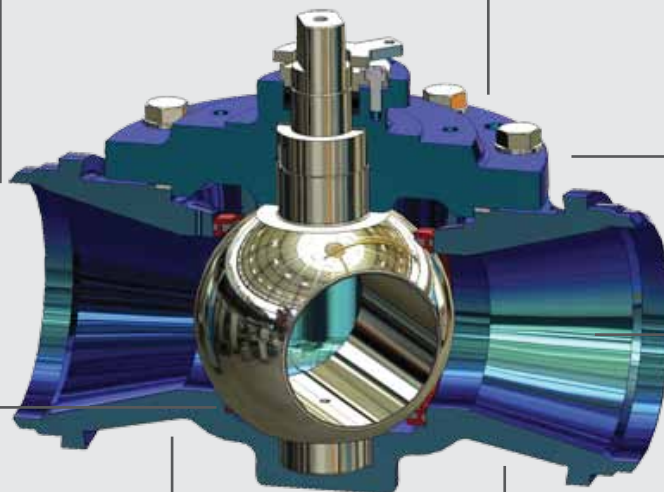
## Design | Typical features

### End Connections

Butt weld, socket weld, flanged or threaded

### Top Entry

Easy to maintain in-line



### One Piece Body

No circumferential joints

### Reduced or Full Bore

### Seat Arrangements

For cryogenic, high temperature & block and bleed options

### Design & Approved

Fire safe & antistatic

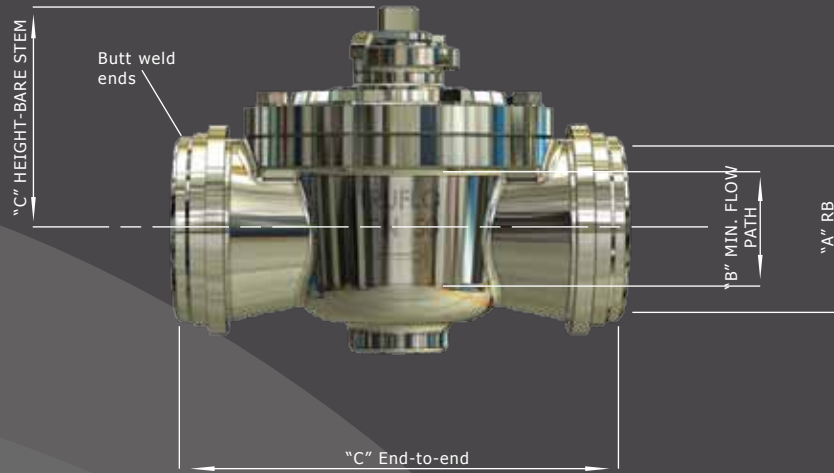
### Range of Body Materials

Carbon steels, stainless steels, non ferrous and special alloys

### Top & Bottom Trunnions

Lower torque and lower load on seats

## Typical Dimensions



VALVE SIZE		"B" mm	"C" mm	Construction	Cv	"C"	Weight Kg
AREVA Size	"A"	Min. Bore Dia	End-to-End		USgals/min		
ND 8	8mm RB	6	Top entry valves can be supplied; current supply assumed to be 3 piece valves	Floating ball			
	10mm RB	6		Floating ball			
ND 15	15mm RB	8		Floating ball			
	20mm RB	11		Floating ball			
ND 25	25mm RB	17		Floating ball			
	32mm RB	23		Trunnion			
ND 40	40mm RB	27		Trunnion	57	105	5
ND 50	50mm RB	36		Trunnion	135	112	7
	65mm RB	49		Trunnion	210	122	11
ND 80	80mm RB	55		Trunnion	300	125	17
ND 100	100mm RB	74		Trunnion	575	142	27
ND 150	150mm RB	98		Trunnion	780	192	50
	200mm RB	144		Trunnion	1770	285	145
	250mm RB	186		Trunnion	2900	320	260
	300mm RB	227		Trunnion	5200	330	320

### Bespoke Design

Our team of highly skilled and experienced engineers specialise in designing products for engineering advantage.

### Quality Assurance

Our excellent QA system has been recognised by the ISO 9001 accreditation, whilst our environmental commitment has been recognised by the ISO 14000 accreditation.

Our commitment to all-round better business processes has been rewarded with Investors in People and Investors in Excellence and are we are progressing towards OHSAS 18000 for Health & Safety.

### Supply Chain Management

We work closely with our supply chain to ensure that quality and reliability of raw materials is maintained. We are currently working with BAE Systems within their SC21 Programme.

### Design Quality and Integrity:

Truflo valves are designed in accordance with BS EN ISO17292, BS EN 12516 and BS EN 13445-3 standards.

Our valves can also be designed to meet the following standards:

- RCCM
- ASME Section III Class 2, 3
- ASME B16.34
- PED 97/23/EC

## Testing | Guaranteed Quality and Integrity

Quality and integrity is of fundamental importance to both ourselves and our customers. We do everything we can to guarantee that our products are of the highest possible quality. Our extensive testing and validation programme ensures that you can have complete confidence in the valves we deliver. Testing procedures include:

<b>Hydrostatic Testing</b>	Up to 440 bar
<b>Pressure Testing</b>	Up to 300 bar
<b>Shock Testing</b>	Up to 500 g
<b>Vibration Testing</b>	To Customer Specification
<b>Noise Testing</b>	MIL-STD-1474 D (Airborne); MIL-STD-740 (Structural)
<b>NDT Testing</b>	Radiography and Ultrasonic
<b>Flow Testing</b>	Water (up to 40 bar); Air (up to 276 bar)
<b>Fire Testing</b>	To BS EN ISO 10497 (2004)
<b>Life Cycle Testing</b>	Size up to 125mm; Pressure up to 40 bar; Flow up to 4m <sup>3</sup> / sec <sup>-1</sup>
<b>Leak Testing</b>	Helium to 10 <sup>-6</sup> mb. l sec <sup>-1</sup>

## Experience | Nuclear Installations

Truflo valves have been installed in nuclear powerplants since 1975 and in nuclear submarines for over 40 years. Amongst our most prestigious projects are:

- **Heysham 1 and 2 Nuclear Power Plants**
- **Torness Nuclear Power Plant**
- **Hartlepool Nuclear Power Plant**
- **Sizewell B Nuclear Power Plant**
- **Sellafield Ltd.**
- **All Royal Navy nuclear submarines, including:**
  - **Trafalgar Class**
  - **Astute Class**
  - **Vanguard Class (Trident)**
  - **HMS Dreadnought**  
(UK's first nuclear-powered submarine)



investor in excellence



BS EN ISO 9001 : 2000  
Certificate No. LRQ 0850753



BS EN ISO 14001 : 2004  
Certificate No. LRQ 4004225

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Truflo Marine is a fluid controls business of IMI plc