

**SECTION 1 GENERAL REQUIREMENTS**

- BS 1780 : 1960 Bourdon tube pressure and vacuum gauges
- BS 1780 : Part 2 : 1971 Bourdon tube pressure and vacuum gauges, metric units

The two above standards are retained as they determine the physical nature of the gauges which would not conform to later standards.

- Def Stan 03-24 Anodizing of aluminium and aluminium alloys
- Def Stan 80-152 Stoving paint system for instruments
- Def Stan 80-8 Paint, finishing, for instruments, stoving, matt black, etc
- BS 381C Colours for specific purposes
- BS 2779 : 1973 or 1986 Pipe threads for attachment purposes only
- ISO 228 Issue 1 or 2 : 1980 or 1982 Pipe threads for attachment purposes only
- ISO 7-1 1994 Part 1 Pipe threads where pressure tight joints are made on the threads-
- Statutory Instrument 2000 No 128 The Pressure Systems Safety Regulations 2000.
- Statutory Instrument 1999 No 2001 The Pressure Equipment Regulations 1999
- Pressure Equipment Directive 97/23/EU.

3.2 Reference in this standard to any related document means in any invitation to tender or contract the edition and all amendments current at the date of such tender or contract unless a specific edition is indicated.

3.3 In consideration of 3.2 above, users shall be fully aware of the issue and amendment status of all related documents, particularly when forming part of an invitation to tender or contract. Responsibility for the correct application of standards rests with users.

3.4 DStan can advise regarding where related documents are obtained from. Requests for such information can be made to the DStan Helpdesk. How to contact the helpdesk is shown on the outside rear cover of Def Stans.

**4 DEFINITIONS**

**4.1 Nominal size**

The nominal size of the gauge is the dial size (not the mounting flange diameter) and this is the size quoted in the Tables which are in accordance with BS 1780 : Part 2 : 1971, or BS 1780 : 1960.

**4.2. Concentric scale gauge**

All pressure gauges covered by this Standard, with the exception of the edgewise gauges, have concentric circular scales.

**4.3 Direct mounting gauge**

4.3.1 A gauge which is mounted and supported by its screwed pressure connection.

4.3.2 In this Standard, all direct mounting gauges have the screwed pressure connection at the bottom of the periphery of the case, relative to the scale.

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### 4.4 Surface mounting gauge

4.4.1 A gauge intended for mounting on the surface of a panel, the whole of the gauge projecting forward therefrom, and which is mounted and supported by means of a flange at the rear of the case with three-hole fixing .

**SAFETY NOTE:** Where the surface mounting gauge is of the safety pattern type, (and all DStan gauges to this issue of the standard should be) the gauge should be mounted a minimum of 20mm from the mounting surface to allow the blast to dissipate away from the front of the gauge in the event of gauge failure. This should be taken to apply to all gauges.

4.4.2 In this Standard, all surface mounting gauges have the screwed pressure connection at the bottom of the periphery of the case, relative to the scale.

### 4.5 Flush mounting gauge

4.5.1 A gauge intended for mounting in a panel, the greater portion of the case being recessed in the panel so that the front of the gauge, after mounting is virtually flush with the panel.

4.5.2 In this Standard, all circular flush mounting gauges have the screwed connection at the bottom of the back of the gauge, and the gauge is mounted by means of a flange with three-hole fixing at the front of the gauge.

4.5.3 Flush mounted edgewise gauges have the screwed connection at the bottom rear corner of the case such that the axis of the connection is at an angle of  $45^\circ$  to the gauge front, and the gauge is mounted by means of a rectangular flange with four-hole fixing at the front of the gauge.

### 4.6. Pressure connections

In this standard all gauges are connected by external parallel threads (for attachment purposes only) to BS 2779 1973 or 1986 or ISO 228 Issue 1 or 2 : 1980 or 1982.

## 5 ABBREVIATIONS

Designation	Title
BS	British Standard
BSP	British Standard Pipe
Def Stan	Defence Standard
lbf/in <sup>2</sup>	Pounds per Square Inch
mm	Millimetres

بخش اول الزامات کلی

BS 1780: 1960 → مجموعه‌های خط و شمار لوله‌های بوددون

BS 1780: part 2: 1971 → (راهنمای متریک)

دو استاندارد بالا بدین دلیل الزامات لوله‌های زیر مجزا شده و جدا آورده شده‌اند که طبیعت متریک بی‌شک و یقین می‌کند که با سایر استانداردها مطابقت ندارد.

DEF stan 03-24 → آندز کریل آلومینیوم و آلومیناها آلومینیوم

DEF stan 80-152 → سیستم کوره رند برای ابزارها و وسایل

DEF stan 80-8 → رند، پیروان برای ابزارها، نخن، پیروان مات

BS 381 C → رنهای برای اهداف مشخص

BS 2779: 1973 or 1986 → ازدهی لوله‌ها تنها برای اتصالات

ISO 228 Issue 1 or 2: 1980 or 1982 →

ISO 7-1 1994 part 1 → ازدهی لوله‌ها جایی که اتصالات شاری روی رزده ایجاد شود

این نام این سیستم‌های شاری 2000

این نام تجهیزات شاری 1999

بخش نام تجهیزات شاری

3-2 ، 3-3 ، 3-4 شای در ارتباط با استاندارد لوله‌ها که در استاندارد لوله‌ها

4 تعاریف

4-1 اندزده‌های اسکمی

اندزده‌های اسکمی بی‌شک: اندزده‌های شای یا صندلی مربع است (نه قطر فلنج صندلی لوله)

و این برابر همان مقدار بیان شده در جدول است، مطابق با BS 1780: part 2: 1971

BS 1780: 1960

