INTERNATIONAL STANDARD ISO 13628-4:2010
TECHNICAL CORRIGENDUM 1

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Petroleum and natural gas industries — Design and operation of subsea production systems —

Part 4: Subsea wellhead and tree equipment

TECHNICAL CORRIGENDUM 1

Industries du pétrole et du gaz naturel — Conception et exploitation des systèmes de production immergés —

Partie 4: Équipements immergés de tête de puits et tête de production

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 13628-4:2010 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 4, *Drilling and production equipment*.

Page 60, Table 11

Replace the existing table and figure with the following.

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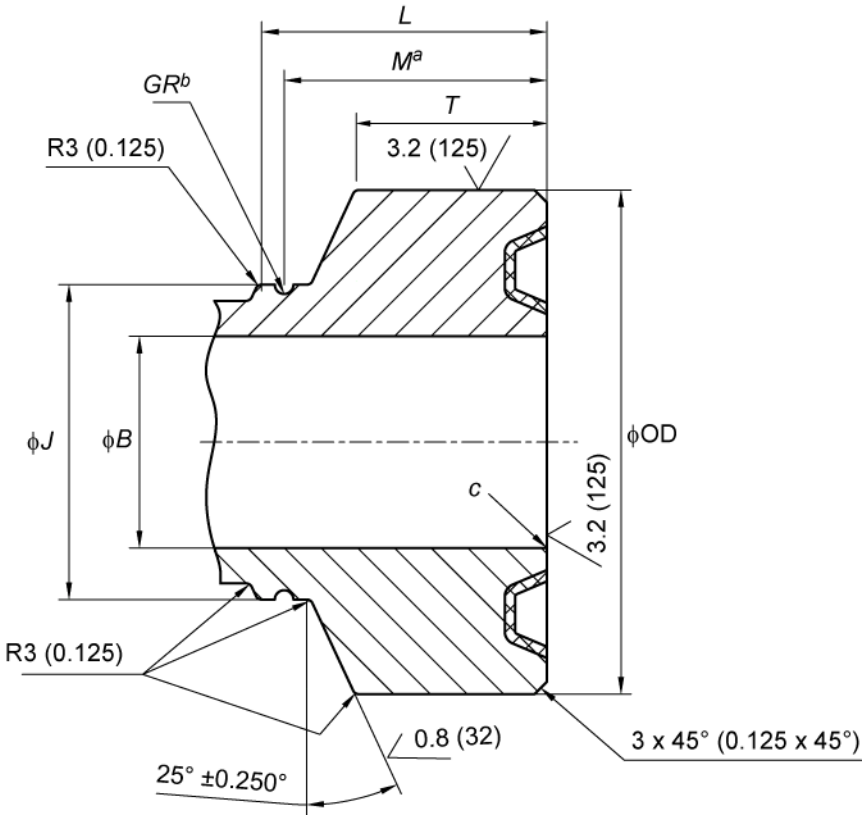
Table 11 — Hub and bore dimensions for type 17SV flanges for 34,5 MPa (5 000 psi) rated working pressure

Dimensions in millimetres (inches) unless otherwise indicated



a Groove location, $M\ ^{+0,7}_{0}\left(^{+0,030}_{0}\right)$.

b Groove radius, $GR\ ^{+0,1}_{0}\left(^{+0,005}_{0}\right)$.

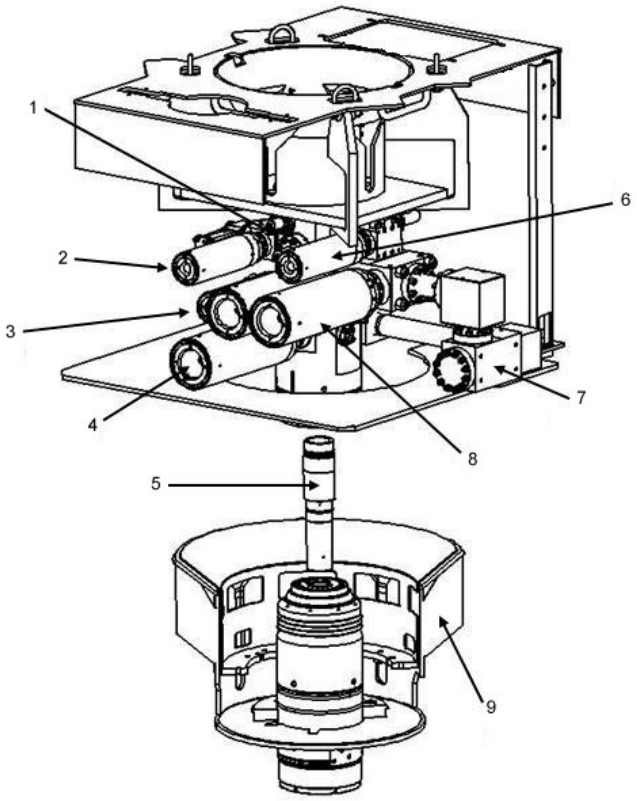
c Break sharp corners.

Hub[a] and bore dimensions														
Nominal size and bore		Outside diameter		Total thickness		Large diameter of neck		Length of neck		Groove location		Retainer groove radius		Ring gasket no.
		OD		*T*		*J*		*L*		*M*		*GR*		*BX*
mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	
52	(2 1/16)	128	(5,031)	29,5	(1,166)	93	(3,656)	84	(3,282)	74	(2,907)	3	(0,125)	152
65	(2 9/16)	147	(5,781)	29,5	(1,166)	112	(4,406)	84	(3,282)	74	(2,907)	3	(0,125)	153
78	(3 1/8)	160	(6,312)	29,5	(1,166)	126	(4,938)	88	(3,432)	78	(3,067)	3	(0,125)	154
103	(4 1/16)	194	(7,625)	30,5	(1,197)	159	(6,250)	96	(3,757)	86	(3,382)	3	(0,125)	155
130	(5 1/8)	240	(9,380)	36,0	(1,410)	197	(7,755)	121	(4,732)	111	(4,357)	3	(0,125)	169
179	(7 1/16)	272	(10,700)	41,5	(1,622)	231	(9,075)	141	(5,541)	127	(4,979)	5	(0,188)	156
228	(9)	340	(13,250)	41,5	(1,622)	296	(11,625)	156	(6,113)	141	(5,551)	5	(0,188)	157
279	(11)	415	(16,250)	42,0	(1,654)	372	(14,625)	162	(6,932)	162	(6,370)	5	(0,188)	158
346	(13 5/8)	524	(20,625)	47,52	(1,871)	489	(19,000)	182	(7,150)	168	(6,614)	5	(0,188)	160

a Hub material strength shall be equal to or greater than 517,1 MPa (75 000 psi).

Page 170, Figure A.3

Replace the existing figure with the following.



Key

1	swab valves	5	tubing hanger	9	GRA, CGB, or tubing head
2	annulus wing valve	6	crossover valve		
3	annulus master valve	7	production outlet		
4	master valve	8	wing valve		

Figure A.3 — Guidelineless style vertical tree

Pages 220 and 221, K.3.3.3.5, Equation (K.25)

Replace the existing equation with the following.

Bending stress, S_B, is calculated as given in Equation (K.25):

$$S_B = \frac{M \times y}{I_W} \tag{K.25}$$

where

M is the bending moment, equal to $F_p \times \sin(\alpha) \times H$;

y is the dimension from neutral axis to end of weld, equal to $\frac{(L + 2h)}{2}$;

I_w is the moment of inertia of weld, equal to $0{,}707h \times I_u$;

I_u is the unit moment of inertia of weld, equal to $\frac{L^2}{6}(3t + L)$;

h is the weld size (full penetration), equal to $0{,}5 \times t$.