14

SUMMARY OF THREADS FOR FITTINGS
BILAN DE FILETAGE WHITWORTH POUR TUYAUTERIE
RESUMEN DE ROSCAS WHITWORTH PARA TUBOS

NO ESTANCAS · NOT DRYSEAL · SANS ETAINCHEITE				
NORMA	ROSCA INTERIOR INTERNAL THREAD FILETAGE INTERNE		ROSCA EXTERIOR EXTERNAL THREAD FILETAGE EXTERNE		FIG.
	CILINDRICA PARALELL CILINDRIQUE	CONICA TAPER CONIQUE	CILINDRICA PARALELL CILINDRIQUE	CONICA TAPER CONIQUE	
DIN 259	**R**	–	**R**	–	
INGLESA-ENGLISH-ANGLAIS	BSP	–	BSP	–	
JAPONESA-JAPANESE-JAPONAIS	PF	–	PF	–	
ISO 228	**G**	–	**G**	–	
INGLESA-ENGLISH-ANGLAIS	BSP	–	BSP	–	
JAPONESA-JAPANESE-JAPONAIS	PF	–	PF	–	

ESTANCAS - DRYSEAL - AVEC ETAINCHEITE				
NORMA	ROSCA INTERIOR INTERNAL THREAD FILETAGE INTERNE		ROSCA EXTERIOR EXTERNAL THREAD FILETAGE EXTERNE		FIG.
	CILINDRICA PARALELL CILINDRIQUE	CONICA TAPER CONIQUE	CILINDRICA PARALELL CILINDRIQUE	CONICA TAPER CONIQUE	
DIN 2999	**Rp**	–	–	**R**	
INGLESA-ENGLISH-ANGLAIS	BSPP	–	–	BSPT	
JAPONESA-JAPANESE-JAPONAIS	PS	–	–	PT	
ISO 7/1	**Rp**	**Rc**	–	**R**	
INGLESA-ENGLISH-ANGLAIS	BSPP	BSPT	–	BSPT	
JAPONESA-JAPANESE-JAPONAIS	PS	PT	–	PT	

ESQUEMA DE TOLERANCIAS · ESCHEME OF ALLOWANCES · ESCHEMA DE TOLERANCES

DIN 259 - ISO 228	DIN 2999 - ISO 7/1

TUERCA
NUT
ECROU

DIN 259
ISO 228

O NOMINAL

ISO 2999 e ISO 7/1

Tol. R

DIN 259

ISO 228 A

ISO 228 B

TORNILLO
SCREW
VIS

TUERCA
NUT
ECROU

TORNILLO
SCREW
VIS

Rp   Rc

CONICIDAD
TAPER
CONICITE   1:16

0   0

R   R

Abbreviations of threads have been included in the ISO 7/1-1978 and ISO 228/1-1978 standards. That is the reason why there has been some confusion concerning them, as the abbreviation of a thread according to ISO 7/1-1978 is identical to the designation used to date in accordance with DIN 259, section 1. The risk of confusion about the male taper thread according to ISO 7/1 with the male parallel thread corresponding to DIN 259 implies safety risks. In order to make this clear, the different sealing functions of thread connections are indicated. The parallel thread according to DIN 259 (ISO 228/1) requires an additional sealed element at the front face of parts to be threaded. As far as the taper pipe thread is concerned according to ISO 7/1 (DIN 2999, section 1), a solution (hemp or PTFE tape) to seal will be used.

CHANGES IN RELATION TO DIN 259, Sections 1,2 and 3.

- The abbreviation has been changed from R to G.
- Abbreviations for male thread tolerances have been changed.

The tolerance class A of this standard corresponds to « mean » (m) and B corresponds to « rough » (g) according to DIN 259, section 2.

The letter A or B will always be added to the symbol for the male thread.

- The nominal average for R 1/16 has been adapted as a novelty.
- There is no specifications, in this standard, on how the minor diameter of male and female threads will be.

1 SCOPE OF USE

These threads are used in non sealed mechanical connections of parts: Fittings, cocks, valves, etc. For sealed connections in pipe thread, see ISO 7/1.

2 SYMBOLS AND ITS MEANING

G Threads for pipe without sealed connections in threads

A Class of narrow thread tolerance for pipes without sealed connections in threads

B Class of wide thread tolerance for pipes without sealed connections in threads

H Height of profile triangle

h Height of the thread profile with round thread crests and round thread root (thread depth)

r Radius of the round thread crests and the round thread root

P Pitch

d Outside diameter of male thread

d1 = d - 1,280 654 P Core diameter of male thread

d2 = d - 0,640 327 P Flank diameter of male thread

3 DIMENSIONS

The base profile of this thread is identical to that of the parallel thread according to ISO 7/1. Both female and male threads according to ISO 228/1 are parallel. Crest of threads can be flat up to the differences of limit dimensions, except for the female threads, so as to they can be matched to the male threads according to ISO 7/1. Two classes of tolerances for the flank diameter have been specified for male threads. Class A. For negative differences of dimensions; values equal to the positive differences of dimensions for the femalethread. Class B. For negative differences of dimensions; values two times those of class A.

4 NUT SYMBOLS

The pipe threads corresponding to this standard will be designated as follows:

- Female threads (only a class of tolerance)
Letter G, followed by the nominal thread size.
- Letter G, followed by the nominal thread size a nd letter A or B, according to the class of tolerance ■