

## **GEODAG SISTEMI Srl**

Via Donizetti, n.24 24020 Gorle (BG)  
Tel. 0039 035340771 – Fax 0039 0354534991 - mobile 0039 3355865013  
email [info@geodagsistemi.eu](mailto:info@geodagsistemi.eu) Website : [www.geodagsistemi.eu](http://www.geodagsistemi.eu)  
Rif. Dr. Fulvio CARRUBBA

# **SISTEMA DI PROTEZIONE ANTICORROSIONE IN ACCIAIO INOSSIDABILE PER TIRANTI PERMANENTI A BARRE A FILETTATURA CONTINUA**

**Post-tensione  
Geotecnica  
Pendini per ponti  
Tiranti Strutturali**

Document GS09

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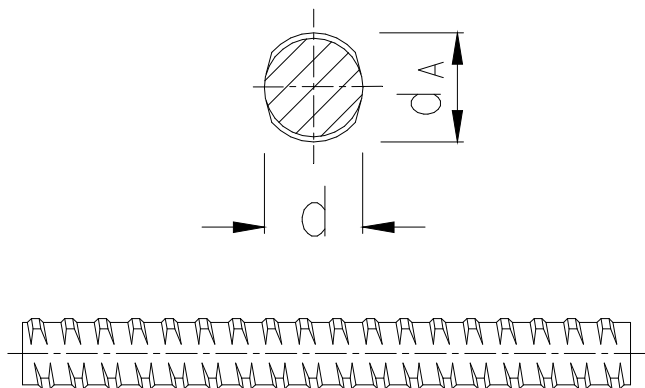
Prepared by:

Technical Department GS

**Y 1050** d.18-47 mm  
**Y 1035** d.57-75 mm

**Barre a filettatura continua  
 per precompressione e post-tensione**  
 destrorsa, laminata a caldo

Ø mm	articolo
18	S18 R08 WR50
26,5	S26,5 R13 WR50
32	S32 R16 WR50
36	S36 R18 WR50
40	S40 R20 WR50
47	S47 R21 WR50
57	570 WR
65	650 WR
75	750 WR



d Ø [mm]	18	26,5	32	36	40	47	57	65	75	
d <sub>A</sub> [mm]	21	31	37	42	46	53	64	72	82	
c [mm]	8	13	16	18	20	21	21	21	24	
f <sub>y</sub> / f <sub>pk</sub> / A <sub>10</sub> <sup>1)</sup>	950 N/mm <sup>2</sup> / 1050 N/mm <sup>2</sup> / ≥7%						835 N/mm <sup>2</sup> / 1035 N/mm <sup>2</sup> / ≥7%			
F <sub>v/02</sub> (F <sub>pk</sub> ) [kN]	230	525	760	960	1190	1650	2155	2780	3690	
F <sub>pk</sub> [kN]	255	580	850	1070	1320	1820	2671	3447	4572	
A [mm <sup>2</sup> ]	241	551	804	1020	1257	1735	2581	3331	4418	
G [kg/m]	1,96	4,48	6,53	8,27	10,21	14,10	20,95	27,10	35,90	

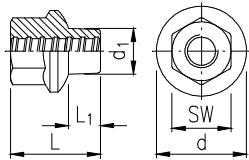
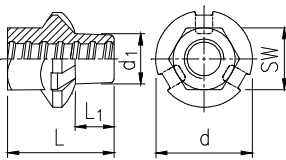
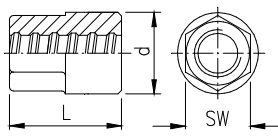
f<sub>pyk</sub> = tensione di snervamento caratteristica

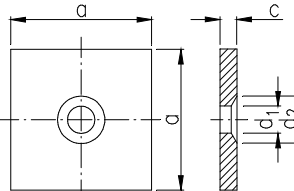
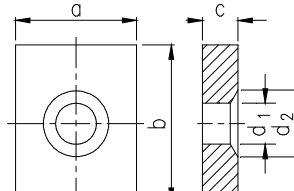
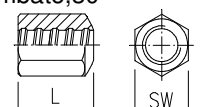
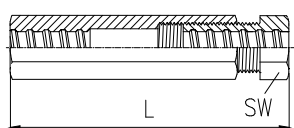
f<sub>ptk</sub> = tensione di rottura caratteristica

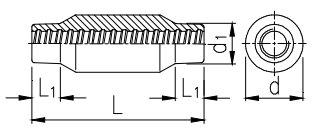
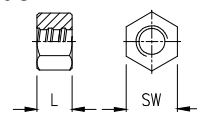
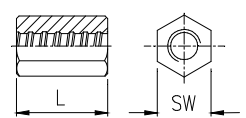
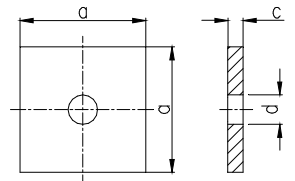
F<sub>py</sub> = carico di snervamento minimo

F<sub>pt</sub> = carico di rottura minimo







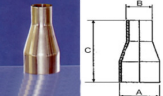
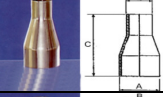
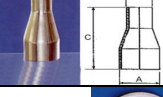
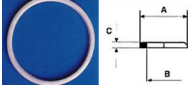
A<sub>10</sub> = allungamento e rottura su base 10 diametro

Accessori	Ø [mm]	18	26,5	32	36	40	47	57	65	75	
<b>WR 2801 - Ø dado a calotta, dinamico, 30 °</b>    materiale inox duplex	<b>SW</b> [mm]	32	46	55	60	70	80				
	<b>L</b> [mm]	55	80	98	108	125	145				
	<b>d</b> [mm]	50	70	86	90	100	120				
	<b>d<sub>1</sub></b> [mm]	26	38	47	52	58	68				
	<b>L<sub>1</sub></b> [mm]	20	30	40	45	50	58				
	<b>G</b> [kg]	0,40	0,80	1,40	1,60	2,55	4,05				
	<b>WR 2802 - Ø dado ad iniezione, dinamico, 30 °</b>    materiale inox duplex	<b>SW</b> [mm]	32	46	55	60	70	80			
<b>L</b> [mm]		55	80	98	108	125	145				
<b>d</b> [mm]		50	70	86	90	100	120				
<b>d<sub>1</sub></b> [mm]		26	38	47	52	58	68				
<b>L<sub>1</sub></b> [mm]		20	30	40	45	50	58				
<b>G</b> [kg]		0,35	0,75	1,30	1,50	2,45	3,90				
<b>WR 2004 - Ø dado d'ancoraggio, piano</b>    materiale inox duplex		<b>SW</b> [mm]	32	46	55	60	70	80	90	100	105
	<b>L</b> [mm]	60	80	90	110	120	140	130	130	145	
	<b>d</b> [mm]	40	56	60	65	71	85	95	105	114	
	<b>G</b> [kg]										

Accessori	Ø [mm]	18	26,5	32	36	40	47	57	65	75
<b>WR 2811 - Ø</b> <b>piastra d'ancoraggio,</b> quadrata, 30°  materiale <i>inox 304/316</i>	<b>a</b> [mm]	120	140	180	200	220	260	S.M.	S.M.	S.M.
	<b>c</b> [mm]	20	30	35	40	45	50	S.M.	S.M.	S.M.
	<b>d<sub>1</sub></b> [mm]	35	45	55	60	65	75	S.M.	S.M.	S.M.
	<b>d<sub>2</sub></b> [mm]	50	70	86	90	100	120	S.M.	S.M.	S.M.
	<b>G</b> [kg]	2,10	4,20	8,10	11,70	15,40	24,45	S.M.	S.M.	S.M.
<b>WR 2812 - Ø</b> <b>piastra d'ancoraggio,</b> rettangolare, 30°  materiale <i>inox 304/316</i>	<b>a</b> [mm]	100	120	140	150	150	200	S.M.	S.M.	S.M.
	<b>b</b> [mm]	130	150	220	240	290	326	S.M.	S.M.	S.M.
	<b>c</b> [mm]	20	35	50	55	65	50	S.M.	S.M.	S.M.
	<b>d<sub>1</sub></b> [mm]	37	47	56	61	66	75	S.M.	S.M.	S.M.
	<b>d<sub>2</sub></b> [mm]	50	70	86	90	100	120	S.M.	S.M.	S.M.
	<b>G</b> [kg]	1,83	4,50	9,45	14,20	20,20	23,00	S.M.	S.M.	S.M.
<b>WR 2003 - Ø</b> <b>dado d'ancoraggio</b> bombato, 30°  materiale <i>inox 304/316</i>	<b>SW</b> [mm]	41	46	55	60	70	80	90	100	105
	<b>L</b> [mm]	60	80	90	110	120	140	130	130	145
	<b>G</b> [kg]	0,56	0,75	1,20	1,65	2,65	3,80	4,00	5,30	5,70
<b>WR 3105 - Ø</b> <b>tenditore a vite</b>  materiale / <i>inox 304/316</i>	<b>SW</b> [mm]	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.
	<b>~ L</b> [mm]									
	<b>G</b> [kg]									

<b>Accessori</b>	$\varnothing$ [mm]	<b>18</b>	<b>26,5</b>	<b>32</b>	<b>36</b>	<b>40</b>	<b>47</b>	<b>57</b>	<b>65</b>	<b>75</b>
<b>WR 3803 - <math>\varnothing</math><sup>1)</sup>            manicotto,            dinamico</b>    materiale <i>inox duplex</i>	<b>d</b> [mm]	40	56	60	65	71	85	95	105	114
	<b>d<sub>1</sub></b> [mm]	28	38	47	52	58	68	78	82	96
	<b>L</b> [mm]	110	160	200	215	250	265	265	265	290
	<b>L<sub>1</sub></b> [mm]	22	30	40	45	45	50	50	50	60
	<b>G</b> [kg]		1,45	1,90	2,50	3,65	5,15			
<b>WR 2001 - <math>\varnothing</math>            controdado</b>    materiale <i>inox 304/316</i>	<b>SW</b> [mm]	30	36	41	46	50	60	90	90	105
	<b>L</b> [mm]	22	22	22	25	25	30	35	40	50
	<b>G</b> [kg]	0,10	0,12	0,20	0,25	0,25	0,30	1,10	1,25	2,10
<b>WR 2002 - <math>\varnothing</math>            dado d'ancoraggio, piano</b>    materiale <i>inox 304/316</i>	<b>SW</b> [mm]	41	46	55	60	70	80	90	100	105
	<b>L</b> [mm]	60	80	90	110	120	140	130	130	145
	<b>G</b> [kg]	0,56	0,75	1,20	1,65	2,65	3,80	4,00	5,30	5,70
<b>WR 2139 - <math>\varnothing</math>            piastra d'ancoraggio,            piana</b>    materiale <i>inox 304/316</i>	<b>a</b> [mm]	120	150	180	200	220	240	285	325	370
	<b>c</b> [mm]	20	35	40	45	45	55	65	70	80
	<b>d</b> [mm]	25	32	38	45	50	58	70	78	88
	<b>G</b> [kg]	2,20	5,70	9,40	13,05	15,70	23,50	39,50	55,50	82,00

**Le barre filettate vengono fornite incamiciate in tubi in acciaio inossidabile a spessore e qualità dimensionati in funzione del tipo di ambiente in cui verranno messe in opera. Sono rese solidali ai tubi di rivestimento con l'ausilio di resine speciali isolanti. Tutte le giunzioni ed i raccordi sono del tipo ermetico con guarnizioni dielettriche.**

N°	Rivestimento <sup>1)</sup>	sigla	spessore dello rivestimento	secondo le norme	Lunghezza max
1	Tubo di rivestimento in acciaio inox per barre	TB 304			6 m
2	Tubo di rivestimento in acciaio inox per barre	TB 316			6 m
3	Tubo di rivestimento in acciaio inox per barre	TB duplex			6 m
4	Tubo di rivestimento in acciaio inox per raccordi	TBR 304			S.M.
5	Tubo di rivestimento in acciaio inox per raccordi	TBR 316			S.M.
6	Tubo di rivestimento in acciaio inox per raccordi	TBR duplex			S.M.
7	Guarnizioni dielettriche di tenuta				S.M.

<sup>1)</sup> Finitura su richiesta

<sup>2)</sup> nel caso la merce venisse danneggiata durante il trasporto Vi forniamo il kit di riparazione su richiesta.

<sup>3)</sup> l'ordine è vincolato da un numero minimo di barre da rivestire.

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