

LABORATORY

10 11 08 M1.4 LABORATORY SCREW

This is a long screw that fixes the structures screwed to the PERMANENT abutments during the manufacturing processes. It is used manually or with the star adapter. It makes it possible to perform sweep impressions.



10 11 09 ACCESS HOLE PROTECTOR

It consists of a cylinder-shaped device that protects the screw access hole. This avoids material penetration during wax-up procedures. It enables castables height elevation, leaving the screw access hole free by using the protector as a guide.



RV GOLD BASE ABUTMENT

18 10 51 / 18 10 52

Alloy specifications	
Composition	Au-60%, Pt-19%, Pd-20%, Ir-1%
Fusion range	1415° - 1495°
Thermal expansion coefficient	[CET25-600°C] 12,2 µm/m°C
Color	Red (18 10 51) / Yellow (18 10 52)
Elasticity limits	(Rp 0.2%) > 640 N/mm ²
Vickers hardness	> 230
Elongation	> 2%
Mass 18 10 51	0.53 gr.*

*ORIENTATIVE MASSES DEPENDS ON THE MANUFACTURING CHARACTERISTICS.

RV Co-Cr BASE ABUTMENT

18 10 53 / 18 10 54

Alloy specifications	
Composition	Cr 26.00 - 30.00%, Mo 5.00 - 7.00%, Si ≤ 1.00%, Mn ≤ 1.00%, Ni ≤ 1.00%, Fe ≤ 0.75%, N ≤ 0.25%, C ≤ 0.14%, Co

(balance)	
Fusion range	1390 - 1415 °C
Thermal expansion coefficient	13.2 µm/m°C
Color	Blue (18 10 53) / Green (18 10 54)
Elasticity limits	(Rp 0.2 %) > 827 Mpa
Vickers hardness	< 320 Hv10
Elongation	> 12 %
Mass 18 10 13	0.25 gr.*

*ORIENTATIVE MASSES DEPENDS ON THE MANUFACTURING CHARACTERISTICS.

JDTORQUE® TORQUE WRENCH AND ADAPTERS

JDTWKL	JDTORQUE® TORQUE WRENCH
10 08 11	STAR TORQUE WRENCH ADAPTER
10 08 11 L	LONG STAR TORQUE WRENCH ADAPTER
10 08 14	EXTRA LONG STAR TORQUE WRENCH ADAPTER
18 07 30	ADAPTER PERMANENT ABUTMENT BRIDGE
18 07 31	ADAPTER PERMANENT ABUTMENT CROWN



PRODUCT WARNINGS

IMPRESSION TAKING

General observations:

- Individual trays suitable for each case should be used for making the impressions.
- Likewise, quality materials are to be employed, following the manufacturer's instructions for use.
- Check that the implant connection is clean [blood, residues, etc.].
- Take the necessary precautions to prevent elements from becoming detached in the oral cavity, with the risk of swallowing or aspiration of same.

18 09 12 / 18 09 08 / 18 09 07

In the case of unit implants, check that the flat surfaces are perfectly registered in the impression.

18 09 05 / 18 09 06 / 18 09 13 / 18 09 13 L

- Free the zone of the screw by removing excess impression material before it sets.
- Depending on the relation with respect to the antagonist and adjacent teeth, and the gingival height, select the correct transfer (short or long, depending on product availability).
- In the latter case, correct seating of the transfer in the implant and/or abutment is necessary if the direct impression technique is chosen.

MODEL POURING

Check the stability of the analog-transfer unit in the impression before model pouring. Quality materials must be used, following the manufacturer's instructions for use.

RV ABUTMENTS

General observations:

- Tightening on the abutments is to be avoided [maximum torque 5 Ncm] during the prosthesis manufacturing process until definitive insertion of the prosthesis, when the applicable torque should be 25 Ncm.
- It is important to not exceed a torque of 25 Ncm.
- In the case of provisional restorations, the torque for fitting is 15 Ncm.
- Use of the corresponding castable and reamer is essential in order to obtain a superstructure with optimum fit.

RV STRAIGHT ABUTMENTS

18 10 48 / 18 10 49 / 18 10 50

Trimming below 4 mm is to be avoided.

15° AND 25° RV ABUTMENTS

18 10 55 / 18 10 56 / 18 10 57 / 18 10 58

Trimming in height below 4 mm is to be avoided.

RV GOLD BASE ABUTMENT

18 10 51 / 18 10 52

An alloy is to be chosen for overcasting according to standards ISO 9693-1, ISO 22674. [See metal specifications].

DESIGN PARAMETERS TO BE USED IN THE FINAL RESTORATION

Maximum length of the restoration	14 mm	Minimum post height	3,5 mm*	*Do not cut the piece below 3.5 mm to avoid exposing the metal
Minimum wall thickness	0,45 mm	Maximum angulation	30°	

RV Co-Cr BASE ABUTMENT

18 10 53 / 18 10 54

An alloy is to be chosen for overcasting according to standards ISO 9693-1, ISO 22674. [See metal specifications].

DESIGN PARAMETERS TO BE USED IN THE FINAL RESTORATION

Maximum length of the restoration	14 mm	Minimum post height	3,5 mm*	*Do not cut the piece below 3.5 mm to avoid exposing the metal
Minimum wall thickness	0,45 mm	Maximum angulation	30°	

RV PERMANENT ABUTMENTS · OCCLUSAL SCREW

18 10 59 / 18 10 60 / 18 10 61 / 18 10 62 / 18 10 63 / 18 10 64 / 18 10 70 M /

18 10 71 M / 18 10 72 M / 18 10 70 U / 18 10 71 U / 18 10 72 U

Tightening on the RV PERMANENT abutments is to be avoided [maximum torque 5 Ncm] during the prosthesis manufacturing process until definitive insertion of the prosthesis, when the applicable torque is 30 Ncm. A torque of 15 Ncm is to be applied to the superstructure fixation screws, occlusal screw. Exceeding a torque of 15 Ncm can cause screw breakage. The RV PERMANENT abutments [occlusal screw] cannot be trimmed.

PROVISIONAL ABUTMENTS

18 10 42 / 18 10 41

These abutments are made of titanium and must be trimmed using adequate drills. Provisional restorations are to remain in the mouth for a maximum of 90 days. The torque for definitive fitting is 15 Ncm.

ESTHETIC PROVISIONAL ABUTMENTS

18 10 43 / 18 10 44

These abutments are made of PMMA with a titanium implant interface and titanium fixation screw. Trimming must respect the titanium interface in order to avoid rupture of the esthetic coating material. Provisional restorations are to remain in the mouth for a maximum of 28 days. The torque for definitive fitting is 15 Ncm.

RV LOCATOR® OVERDENTURES

18 16 11 / 18 16 12 / 18 16 13 / 18 16 14 / 18 16 15

Indicated for manufacturing implant-retained overdentures on RV VEGA® dental implants.

General observations: The torque for definitive fitting is 25 Ncm. The supporting shoulder of the retaining connector must be left exposed in all cases. The spaces that will house the retaining connectors should not be completely filled, since an excess of acrylic material is not advisable. It is preferable to use lingual canals to ensure that the excess material does not prevent correct seating of the overdentures. If connector splinting is performed in the mouth, a protector [e.g., rubber dam] should be used to prevent the possible excess resin from seeping beneath the neck of the Locator retaining abutment. The different transmucosal heights facilitate use of the Locator® system in cases with either a fine gingival biotype or hypertrophic gums.

PROSTHETIC PLANNING KIT

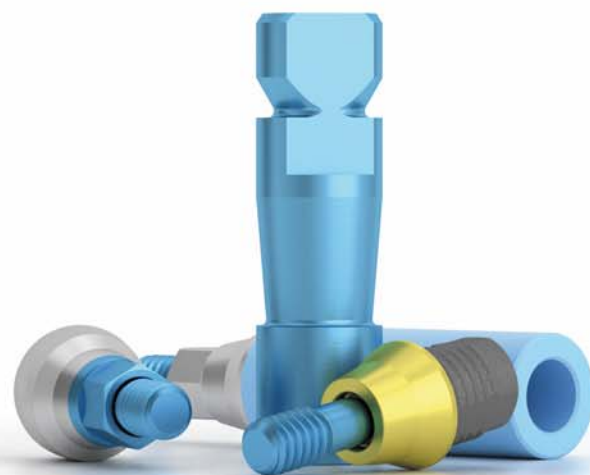
The parts included in the prosthetic planning kit must be cleaned, disinfected and sterilized if intended for use in the oral cavity (steam sterilization at 134°C during 4 min.).

The abutments included in the prosthetic planning kit are not suitable for the manufacture of dental prostheses.

TITANIUM BASE

The titanium base is used for designing ceramic prosthesis with the CAD/CAM system. The titanium base should be used to produce a personalized structure, combining an optimum anatomical contour with esthetic finishing in the supragingival zone.

PERMANENT®



REFERENCE LIST

18 07 30	PERMANENT ABUTMENT ADAPTER [MULTIPLE]	18 12 03	CASTABLE FOR PERMANENT ABUTMENT [MULTIPLE]
18 07 31	PERMANENT ABUTMENT ADAPTER [SINGLE]	18 13 01	TITANIUM FITTING FOR PERMANENT ABUTMENT [SINGLE]
18 09 12	RV TRANSFER [CLOSED TRAY]	18 16 11	RV ABUTMENT LOCATOR® [2.0 MM]
18 09 13	RV TRANSFER [OPEN TRAY]	18 16 12	RV ABUTMENT LOCATOR® [3.0 MM]
18 09 13 L	NV LONG TRANSFER [OPEN TRAY]	18 16 13	RV ABUTMENT LOCATOR® [4.0 MM]
18 09 13.2 XL	NV EXTRA LONG SCREW TRANSFER [OPEN TRAY]	18 16 14	RV ABUTMENT LOCATOR® [5.0 MM]
18 09 21	RV ANALOG	18 16 15	RV ABUTMENT LOCATOR® [6.0 MM]
18 10 48	RV STRAIGHT ABUTMENT [1.0MM]	JDTWKL	JDTORQUE® TORQUE WRENCH
18 10 49	RV STRAIGHT ABUTMENT [2.0MM]	10 08 11	STAR TORQUE WRENCH ADAPTER
18 10 50	RV STRAIGHT ABUTMENT [3.0MM]	10 08 11 L	LONG STAR TORQUE WRENCH ADAPTER
18 12 11	RV CASTABLE FOR STRAIGHT ABUTMENT [SINGLE]	10 08 14	EXTRA LONG STAR TORQUE WRENCH ADAPTER
18 12 12	RV CASTABLE FOR STRAIGHT ABUTMENT [MULTIPLE]	10 15 01	ACCES HOLE REAMER
18 10 55	RV 15° ANGLED ABUTMENT [2.0MM]	10 15 02	SHOULDER REAMER
18 10 56	RV 15° ANGLED ABUTMENT [3.0MM]	10 11 08	M1.4 LABORATORY SCREW
18 10 57	RV 25° ANGLED ABUTMENT [2.0MM]	10 11 09	ACCES HOLE PROTECTOR
18 10 58	RV 25° ANGLED ABUTMENT [3.0MM]		
18 10 42	RV TITANIUM TEMPORARY ABUTMENT [MULTIPLE]		
18 10 41	RV TITANIUM TEMPORARY ABUTMENT [SINGLE]		
18 10 43	RV PMMA TEMPORARY ABUTMENT [SINGLE]		
18 10 44	RV PMMA TEMPORARY ABUTMENT [MULTIPLE]		
18 10 46	RV TITANIUM BASE ABUTMENT [MULTIPLE]		
18 10 45	RV TITANIUM BASE ABUTMENT [SINGLE]		
18 10 51	RV GOLD ABUTMENT [SINGLE]		
18 10 52	RV GOLD ABUTMENT [MULTIPLE]		
18 10 53	RV CoCr ABUTMENT [SINGLE]		
18 10 54	RV CoCr ABUTMENT [MULTIPLE]		
18 11 02	RV STAR SCREW		
18 09 05	MULTIPLE TRANSFER FOR PERMANENT ABUTMENT [OT]		
18 09 05 L	NV LONG MULTIPLE TRANSFER FOR PERMANENT ABUTMENT [OT]		
18 09 06	SINGLE TRANSFER FOR PERMANENT ABUTMENT [OT]		
18 09 06 L	NV LONG SINGLE TRANSFER FOR PERMANENT ABUTMENT [OT]		
18 09 07	MULTIPLE TRANSFER FOR PERMANENT ABUTMENT [CT]		
18 09 08	SINGLE TRANSFER FOR PERMANENT ABUTMENT [CT]		
18 09 04	ANALOG FOR PERMANENT ABUTMENT		
18 10 59	RV 18° ANGLED PERMANENT ABUTMENT [2.0 MM]		
18 10 60	RV 18° ANGLED PERMANENT ABUTMENT [3.0 MM]		
18 10 61	RV 18° ANGLED PERMANENT ABUTMENT [4.0 MM]		
18 10 62	RV 30° ANGLED PERMANENT ABUTMENT [2.0 MM]		
18 10 63	RV 30° ANGLED PERMANENT ABUTMENT [3.0 MM]		
18 10 64	RV 30° ANGLED PERMANENT ABUTMENT [4.0 MM]		
18 10 70 M	RV MULTIPLE STRAIGHT PERMANENT ABUTMENT [1.0 MM]		
18 10 71 M	RV MULTIPLE STRAIGHT PERMANENT ABUTMENT [2.0 MM]		
18 10 72 M	RV MULTIPLE STRAIGHT PERMANENT ABUTMENT [3.0 MM]		
18 12 04	CASTABLE FOR PERMANENT ABUTMENT [MULTIPLE]		
18 13 02	TITANIUM FITTING FOR PERMANENT ABUTMENT [MULTIPLE]		
10 11 21	MICRO STAR SCREW		
18 10 70 U	RV SINGLE STRAIGHT PERMANENT ABUTMENT [1.0 MM]		
18 10 71 U	RV SINGLE STRAIGHT PERMANENT ABUTMENT [2.0 MM]		
18 10 72 U	RV SINGLE STRAIGHT PERMANENT ABUTMENT [3.0 MM]		

All KLOCKNER® IMPLANT SYSTEM products comply with the laws and regulations applicable to medical devices, such as: European directives MDD 93/42/ECC modified by 2007/47/EC · Regulations of the United States FDA 21 CFR 820 · Quality standards EN ISO 13485 and other applicable standards and regulations.



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WARNING

NOT ALL KLOCKNER® IMPLANTS SYSTEM PRODUCTS ARE AVAILABLE IN EVERY COUNTRY



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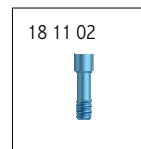
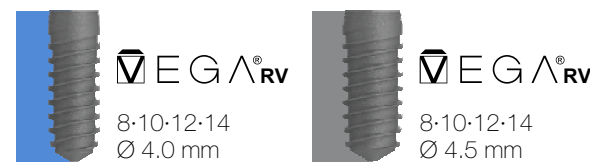
VEGA RV 4.0 / 4.5												
IMPRESSION TAKING												
				18 09 12	18 09 13	18 09 13 L	18 09 13.2 XL					
				18 09 21								

CEMENTABLE			SCREW-RETAINED / CEMENTABLE				SCREW-RET. / CEMENTABLE		PROVISIONAL							
4°			15°		25°		GOLD		Co-Cr		Ti Base		Ti		ESTHETICS	
18 10 48	18 10 49	18 10 50	18 10 55	18 10 56	18 10 57	18 10 58	18 10 51	18 10 52	18 10 53	18 10 54	18 10 45	18 10 46	18 10 41	18 10 42	18 10 43	18 10 44
AT U M 30	AT U M 30	AT U M 30	AT U M A 30	AT U M A 30	AT U M A 30	AT U M A 30	AT U 30	AT M 30	AT U 30	AT M 30	AT U 30	AT M 30	AT U 15	AT M 15	AT U 15	AT M 15
4°	4°	4°	4°	4°	4°	4°	12 MM	12 MM	12 MM	12 MM	3.5 MM	3.5 MM	7.5 MM	7.5 MM	3 MM	3 MM

18 12 11	
18 12 12	

WARNING: DO NOT TIGHTEN THE ABUTMENTS AND/OR SCREWS DURING THE PROSTHESIS MANUFACTURING PROCESSES. AT DEFINITIVE INSERTION OF THE PROSTHESIS, A TORQUE OF 30NCM SHOULD BE APPLIED TO ALL THE ABUTMENTS, WITH A TORQUE OF 15 NCM APPLIED TO THE SUPERSTRUCTURE FIXING SCREWS (REF. 10 11 21). THE ABUTMENTS INCLUDE SCREW REF. 18 11 02.

VEGA® RV
PROSTHETIC SYSTEM
Klockner® implant system



PERMANENT · VEGA RV 4.0 / 4.5												
IMPRESSION TAKING												
				18 09 08	18 09 07	18 09 06	18 09 06 L	18 09 05	18 09 05 L			
				18 09 04								

SCREW-RETAINED													
STRAIGHT						18°			30°				
18 10 70 U	18 10 71 U	18 10 72 U	18 10 70 M	18 10 71 M	18 10 72 M	18 10 59	18 10 60	18 10 61	18 10 62	18 10 63	18 10 64		
AT U 30	AT U 30	AT U 30	AT M 30	AT M 30	AT M 30	AT M 30	AT M 30	AT M 30	AT M 30	AT M 30	AT M 30		
				20°	1.8 MM								
18 12 03	18 13 01	18 12 04				18 13 02							
10 11 21													

THE 18° AND 30° PERMANENT ABUTMENTS INCLUDE SCREW REF. 18 11 02

SYMBOLS AND NOTES

	Closed Tray		Transmucosal Height 1.0 mm		Anatomical Abutment Body
	Open Tray		Transmucosal Height 2.0 mm		Single
	Star Tip		Transmucosal Height 3.0 mm		Multiple
	Placement at 15 Ncm		Transmucosal Height 4.0 mm		
	Placement at 30 Ncm		Transmucosal Height 5.0 mm		
			Transmucosal Height 6.0 mm		

OVERDENTURES · VEGA RV 4.0 / 4.5				
LOCATOR				
18 16 11	18 16 12	18 16 13	18 16 14	18 16 15
AT M 25	AT M 25	AT M 25	AT M 25	AT M 25

PERMANENT®

The PERMANENT abutment can be positioned on the day of implant placement, thereby facilitating work on the abutment in the prosthesis manufacturing process. The availability of different transmucosal heights facilitates the choice of abutment according to the needs in each case and the characteristics of the peri-implant soft tissues, or the treatment objectives. Use of a PERMANENT abutment from the time of implant placement helps preserve the crestal bone surrounding the implants, by avoiding withdrawal and placement in the different steps of the prosthetic restoration process.

The VEGA® implant, and the prosthetic components designed for restoration, aim to preserve the peri-implant bone and thus secure greater soft tissue stability - the main indication being in esthetic locations within the mouth. This objective is optimized by combining implant insertion with placement of the prosthetic abutment. The PERMANENT abutments and family of components facilitate the restoration work, since removal once placed is not necessary when performing each of the prosthesis manufacturing steps.

PROSTHETIC PLANNING KIT

The VEGA PROSTHETIC PLANNING KIT makes it easy to plan the restoration in the mouth and in the model, offering the dentist and laboratory technician a choice of abutments suited in shape and size to each patient.

REAMERS

These are manual instruments that eliminate any irregularities produced during the casting process. Reaming is indispensable during the entire process.

10 15 01 ACCESS HOLE REAMER

Once the castables are cast, this reamer is used to polish the seating of the screws, eliminating any irregularities produced during the casting process.



This reamer can be fitted to prosthetic driver handpiece Ref. 9060, thereby facilitating the reaming process.

10 15 02 SHOULDER REAMER

The castable elements for the manufacture of cemented prosthesis have an over-contour [click] that must be eliminated after casting. The shoulder reamer is used to polish the seating of the superstructures, eliminating possible irregularities produced during the casting process. This reamer can be fitted to prosthetic driver handpiece ref. 9060, thereby facilitating the reaming process.

