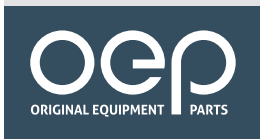


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**SPECS &
INFORMATION**


NORMACONNECT® V QRC





Unique quick release closure for rapid assembly

- ✓ Threaded trunnions enable installation with one hand
- ✓ Lightweight connection compared to bolted joint
- ✓ Adaptable to flanges which are slightly out of tolerance

 Air Intake & Induction

 Exhaust Systems

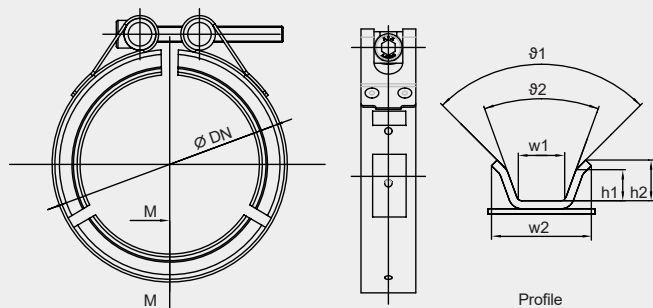
 Cooling Systems

 Fuel & Oil Systems

 Turbocharger Installations

 Fixing & Retaining

NORMACONNECT® V QRC



Applications

The V QRC Clamps are used in different segments of exhaust systems as well as turbocharger installations and offer excellent corrosion resistance properties.

Material

Group:	W3	W4	W5
Band & profile:	1.4510	1.4301	1.4571
Screw:	A2-70/A4-80		
Trunnions:	1.4305		

Part number	Description	Ø DN (mm)	Packaging quantity (pcs)	Profile dimensions					
				w1 (mm)	w2 (mm)	h1 (mm)	h2 (mm)	ϑ1	ϑ2
NORMACONNECT® V QRC									
06330580077	V-QRC 077 096	77	100	6.6	-	4.7	-	40°	-
06330578077	V-QRC 077 869	77	100	8.2	17.0	4.0	-	40°	-
06330579080	V-QRC 080 897	80	50	4.5	13.6	5.8	7.5	40°	70°
06330577080	V-QRC 080 2-0121	80	50	8.7	-	5.8	7.6	40°	90°
06332633082	V-QRC 082 0885	82	50	4.3	13.6	4	7.0	40°	-
06330576085	V-QRC 085 908	85	50	9.0	-	7.0	-	40°	-
06330575097	V-QRC 097 099	97	50	7.9	-	5.2	-	40°	-
06333633098	V-QRC 098 917	98	50	8.8	-	5.4	7.5	40°	90°
06330574103	V-QRC 103 097	103	50	6.5	-	3.6	5.05	40°	90°
06332633108	V-QRC 108 0884	108	50	13.6	-	4.0	7.0	40°	-
06334633112	V-QRC 112 015/P	112	30	6.5	-	7.8	-	40°	-
06332633115	V-QRC 115 933	115	50	7.9	-	5.4	7.8	40°	90°
06330571124	V-QRC 124 094	124	50	6.5	-	4.6	-	40°	-
06334633131	V-QRC 131 110/N4	131	50	6.5	20.0	7.2	-	40°	-
06334633135	V-QRC 135 015/P	135	50	6.5	-	7.8	-	40°	-
06331633143	V-QRC 143 101.D4	143	30	7.9	-	5.8	7.5	40°	90°
06334633145	V-QRC 145 015/P	145	50	6.5	-	7.8	-	40°	-
06334633146	V-QRC 155 110/N4	146	25	6.5	20.0	7.2	-	40°	-
06330572152	V-QRC 152 009	152	35	9.2	-	6.8	-	40°	-
06331633152	V-QRC 152 124/B5	152	30	7.9	-	5.8	7.0	40°	90°
06334633155	V-QRC 155 015/P	155	25	6.5	-	7.8	-	40°	-
06332633179	V-QRC 179 101 D4	179	50	7.9	-	5.3	7.5	40°	90°
06331633185	V-QRC 185 124/B5	185	30	7.9	-	5.8	7.5	40°	90°
06324632317	V-QRC 317	317	30	7.9	-	5.8	7.5	40°	90°
NORMACONNECT® V STC (with solid trunnion closure)									
06322632219	V-STC 219 101	219	30	7.9	-	5.8	7.5	40°	90°
06324632404	V-STC 404 P 015	404	40	6.5	-	7.8	-	40°	-



Do you have questions or require a personal consultation?
 Feel free to contact our Automotive Aftermarket Team! Hotline +44 1635 574 005
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- 1 Cover band**
– optimum distribution of clamping forces
- 2 Closure**
- 3 profile segments**
– ease of assembly



The SVS STC-type closure is a cost effective alternative to conventional T-bolt closures.

Profile clamp with cover band

The NORMACONNECT® V profile clamps are reliable and time-effective connection elements for industrial and automotive use. They are made to customer requirements and can be supplied with various profiles, band widths and closure types.

Advantages at a glance

- Low friction losses
- Robust precision components
- Consistently high material quality
- State-of-the-art automated manufacturing
- Highly competitively priced

Applications

- Automotive: Turbocharger – catalytic converter connection
- Automotive: Exhaust manifold
- Industry: Bulk material container
- Industry: Bypass filter unit

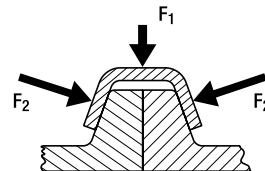
Materials

Code	Closures			Closure components	Profile segments/ Cover band
	STC	QRC	SVS		
W4	•	•	•	Stainless steel	Stainless steel

ISO	DIN	AISI	BS	AFNOR
X5 CrNi 18-10	1.4301	304	304 S 15	Z6 CN 18-09

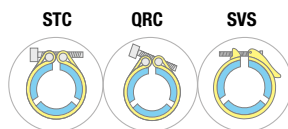
Product's method of operation

The profile clamp's method of operation is based on the principle of an inclined plane. When the closure bolt is tightened, this exerts circumferential force on the profile segments. The two halves of the flange are pressed together by means of the profile (see diagram below). The circumferential force that is exerted is converted into considerably higher axial force.



All profiles at a glance

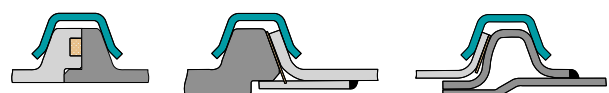
Single-part 3 profile segments
Available up to diameter 300 mm



Two-part 2 profile segments
Available from diameter 200 mm up to 500 mm

Example of flange designs

Use of gasket may be required in some applications. Support and advice on gasket selection can be provided.



QRC



The revolutionary new QRC-type closure offers significant advantages over conventional T-bolt solutions.

Advantages at a glance

- Rapid closing and opening
- Captive closure components
- Significantly shorter installation
- Closure bolt secured during tightening

Material

W4

NORMACONNECT® QRC – Single-part design

Min. profile type	Profile Ø (mm)	W4 Product No.
		QRC
4.0b	≥ 89	0615 2043 ...
5.0a	≥ 82	0615 2032 ...
5.3b	≥ 110	0615 2078 ...
6.0a	≥ 125	0615 2004 ...
6.5a	≥ 130	0615 4015 ...
6.6b	≥ 100	0615 2031 ...
7.9b	≥ 100	0615 2099 ...
9.2a	≥ 100	0615 4009 ...
10.2a	≥ 130	0615 4081 ...
14.5a	≥ 105	0615 4028 ...

Single-part design • 3 segments • Cover band • Inner profile diameter Ø ≤ 300 mm
 "... = Ø without decimals in mm "

SVS



The SVS type includes an over-centre lever which enables manual installation.

Advantages at a glance

- Installation without tools
- Ideal for frequent handling

Material

W4

NORMACONNECT® SVS - Single-part design

Min. profile type	Profile Ø (mm)	W4 Product No.
		SVS
4.0b	≥ 89	0607 2043 ...
5.0a	≥ 82	0607 2032 ...
5.3b	≥ 110	0607 2078 ...
6.0a	≥ 125	0607 2004 ...
6.5a	≥ 130	0607 4015 ...
6.6b	≥ 100	0607 2031 ...
7.9b	≥ 100	0607 2099 ...
9.2a	≥ 100	0607 4009 ...
10.2a	≥ 130	0607 4081 ...
14.5a	≥ 105	0607 4028 ...

Single-part design • 3 segments • Cover band • Inner profile diameter Ø ≤ 300 mm
 "... = Ø without decimals in mm "

NORMACONNECT® SVS - Two-part design

Min. profile type	W4 Product No.
	SVS
4.0b	0605 2043 ...
5.0a	0605 2032 ...
5.3b	0605 2078 ...
6.0a	0605 2004 ...
6.5a	0605 4015 ...
6.6b	0605 2031 ...
7.9b	0605 2099 ...
9.2a	0605 4009 ...
10.2a	0605 4081 ...
14.5a	0605 4028 ...

Two-part version* • 2 segments • No cover band • Inner profile diameter Ø 200 - 500 mm
 "... = Ø without decimals in mm "

Profile types

4.0 b		≥ ø 89		5.0 a		≥ ø 82		5.3 b		≥ ø 110		6.0 a		≥ ø 125	
	20 mm	25 mm		20 mm	25 mm		20 mm	25 mm		20 mm	25 mm		20 mm	25 mm	
STC	•		STC	•		STC	•		STC	•		STC	•		
QRC	•		QRC	•		QRC	•		QRC	•		QRC	•		
SVS	•		SVS	•		SVS	•		SVS	•		SVS	•		
6.6 b		≥ ø 100		9.2 a		≥ ø 100		10.2 a		≥ ø 130		14.5 a		≥ ø 105	
	20 mm	25 mm		20 mm	25 mm		20 mm	25 mm		20 mm	25 mm		20 mm	25 mm	
STC	•		STC		•	STC		•	STC		•	STC		•	
QRC	•		QRC		•	QRC		•	QRC		•	QRC		•	
SVS	•		SVS		•	SVS		•	SVS		•	SVS		•	

The inner profile diameter can be freely selected in millimeter increments. All profiles can be supplied with a diameter of up to ø 500 mm. Please refer to the relevant profile diagram in the table below to find out the minimum diameter permissible for that profile.

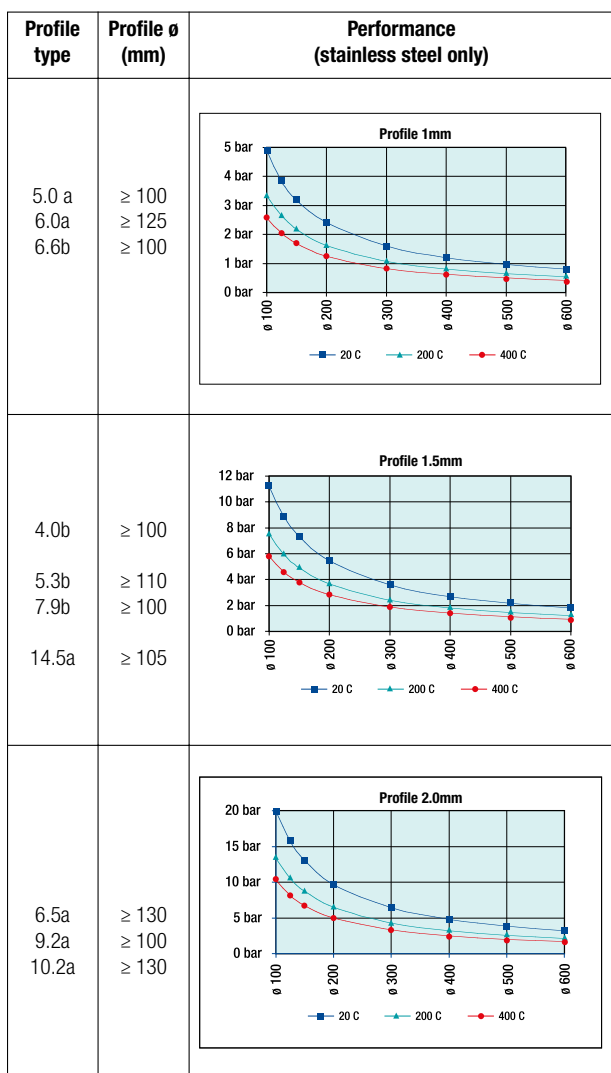
Profile clamps can be supplied with cover bands measuring 20 mm or 25 mm in width.

The table above indicates which cover band is suitable for which profile.

Examples of flange structures

Inner profile ø		Flange 1				Flange 2				Flange 3				Flange 4				
Profile ø = flange ø + 2 x gap width																		
Profile type	Profile ø (mm)	W (mm)	H (mm)	R (mm)	T (mm)	W (mm)	H (mm)	R (mm)	T (mm)	W (mm)	H (mm)	R (mm)	T (mm)	W (mm)	H (mm)	R (mm)	T (mm)	
4.0b	≥ 100	5.1	7.5			5.1	8	2	2	5.1	7.5	1	1	Not recommended				
5.0a	≥ 100	6.1	4.6	6.1	4.6	1.5	1.5	6.1	4.6	1	1	6.1	4.6	1.5	1.5			
5.3b	≥ 110	6.4	7.3	6.4	7.8	2	2	6.4	7.3	1.5	1.5	6.4	7.8	2	2			
6.0a	≥ 125	7.1	4	7.1	4	1.5	1.5	Not recommended				7.1	4	1.5	1.5			
6.5a	≥ 130	7.6	8.3	7.6	8.8	2	2	7.6	8.3	1.5	1.5	7.6	8.8	2	2			
6.6b	≥ 100	7.7	6.6	7.7	6.6	1.5	1.5	7.7	6.6	1.5	1.5	7.7	6.6	1.5	1.5			
7.9b	≥ 100	9	5.7	9	6.2	2	2	9	5.7	1.5	1.5	9	6.2	2	2			
9.2a	≥ 100	10.3	7.3	10.3	7.8	2	2	10.3	7.8	2	2	10.3	7.8	2	2			
10.2a	≥ 130	11.3	7.3	11.3	7.8	2	2	11.3	7.8	2	2	11.3	7.8	2	2			
14.5a	≥ 105	15.6	7.4	15.6	7.9	2	2	15.6	7.9	2	2	Not recommended						
Abbreviations:		W = overall flange width		H = overall flange height		R = flange radius		T = flange thickness										

Technical information



1. Determine the **application or test pressure**.
2. Determine the **max. operating temperature** to which the profile clamp will be exposed.
(Note: The profile clamps presented in this catalogue have been designed for a maximum operating temperature of 400°C.)
3. Calculate the required inner diameter of the profile as follows: outer flange diameter + 3 mm
4. Using the diagrams on the left. Check whether the profile thickness you have selected will be sufficient.
(Note: The result only represents an initial approximation based on static pressures and ideal operating conditions.)

Other factors may come into play, such as:

- Shape of and material used for sealing measures
- Roughness of flange surface
- Operating temperatures
- Bending moments
- Pressure surges/Vibrations
- Safety requirements

Based on these factors, you may decide that a thicker profile is necessary. The SVS closure is only recommended for low pressures (e.g., vacuum applications).

5. The tables below provide information on the tightening torques for the various closure types and bolt sizes.
- 5.1. Recommended tightening torque for STC & QRC-type closures:

Band width	Bolt	Tightening torque
20 mm	M 6	6 Nm
25 mm	M 8	12 Nm

- 5.2 SVS closing force:

Bolt	Force
M 6	≈ 80 Nm

Example of application:

- Operating pressure: 4 bar (static)
- Temperature: 20 °C
- Profile type: 4.0b
- Profile thickness: 1.5 mm
- Flange diameter: $\phi 197$ mm
- Inner profile diameter: $\phi 200$

Max. permissible pressure at 20 °C:

- 5.4 bar > 4 bar :OK



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