

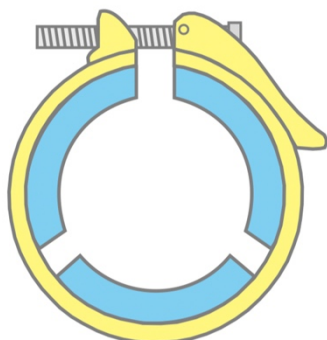
iQparts
IQ-PARTS-SHOP.COM



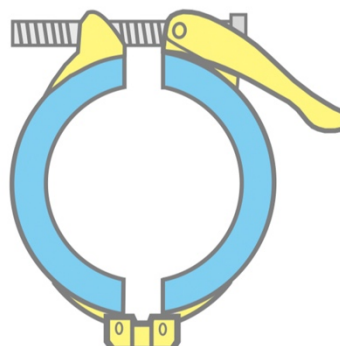
**SPECS &
INFORMATION**

V-Band Profile Clamps

2 Types in the SVS version: (SVS is with lever)

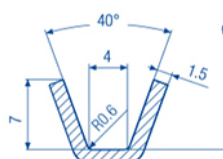
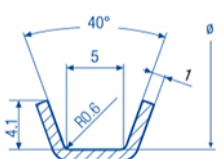
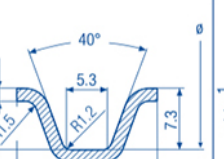
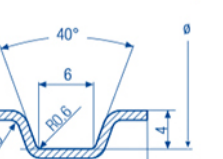
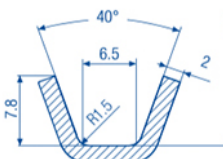
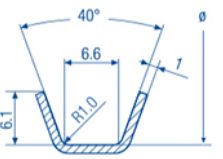
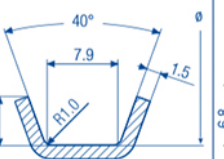
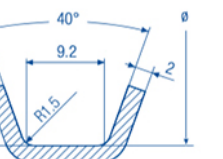
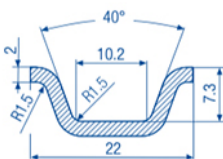
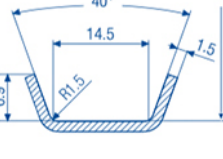


1-piece, 3 segments
Inner profile range: 82 – 300 mm

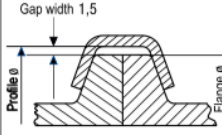
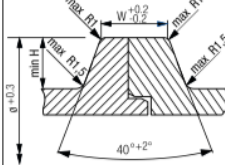
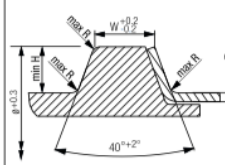
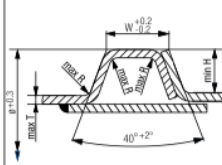
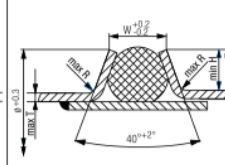


2-piece, 2 segments
Inner profile range: 200 – 500 mm

10 Profile types

4.0 b $\geq \varnothing 89$			5.0 a $\geq \varnothing 82$			5.3 b $\geq \varnothing 110$			6.0 a $\geq \varnothing 100$		
											
	20 mm	25 mm		20 mm	25 mm		20 mm	25 mm		20 mm	25 mm
STC	•		STC	•		STC	•		STC	•	
QRC	•		QRC	•		QRC	•		QRC	•	
6.5 a $\geq \varnothing 120$			6.6 b $\geq \varnothing 100$			7.9 b $\geq \varnothing 100$			9.2 a $\geq \varnothing 100$		
											
	20 mm	25 mm		20 mm	25 mm		20 mm	25 mm		20 mm	25 mm
STC		•	STC	•		STC	•		STC		•
QRC		•	QRC	•		QRC	•		QRC		•
10.2 a $\geq \varnothing 100$			14.5 a $\geq \varnothing 105$								
											
	20 mm	25 mm		20 mm	25 mm						
STC		•	STC		•						
QRC		•	QRC		•						

Examples of flange designs incorporating a gasket

Inner profile ϕ		Flange 1		Flange 2				Flange 3				Flange 4			
 Gap width 1,5 Profile ϕ Profile ϕ = flange ϕ + 2 x gap width															
Profile type	Profile ϕ (mm)	W (mm)	H (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															

Quality

W4

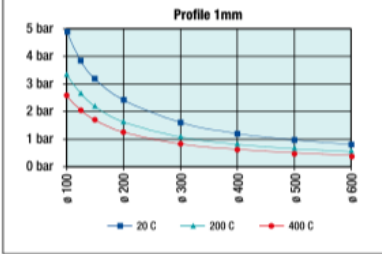
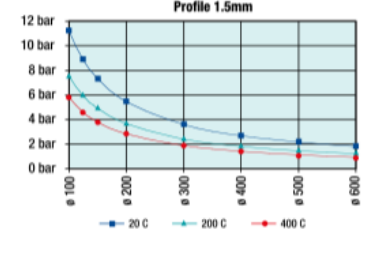
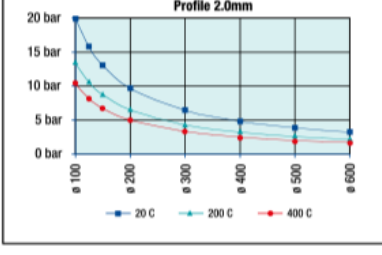
ISO	DIN	AISI	BS	AFNOR
X5 CrNi 18-10	1.4301	304	304 S 15	Z6 CN 18-09

Also available in W5 quality

The profile type determines the band width and thickness:

- 20 mm band width, 1.0 mm band thickness has an M6 x 70 bolt
- 25 mm band width, 1.5 mm band thickness has an M6 x 70 bolt

Technical information

Profile type	Profile ϕ (mm)	Performance (stainless steel only)
5.0 a 6.0a 6.6b	≥ 100 ≥ 125 ≥ 100	
4.0b 5.3b 7.9b 14.5a	≥ 100 ≥ 110 ≥ 100 ≥ 105	
6.5a 9.2a 10.2a	≥ 130 ≥ 100 ≥ 130	

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: ϕ 197 mm
- Inner profile diameter: ϕ 200

Max. permissible pressure at 20 °C:

- 5.4 bar > 4 bar <OK



info@iq-parts.nl
www.iq-parts-shop.com
+31 252 624 126
The Netherlands