

Chemical Anchor V-IG / V-IG A4



Internally Threaded Sleeve V-IG
steel, zinc plated 5.8



Internally Threaded Sleeve V-IG A4
Stainless steel A4



Chemical Capsule V-P

Range of loading: 5,2 kN - 25,1 kN

Range of concrete quality: C20/25 - C50/60

**Material: Steel, zinc plated
Stainless steel A4/316**

Description

The Chemical Anchor V-IG / V-IG A4 is the Internally Threaded Version of the Chemical Anchor V. The system consists of a glass capsule and a threaded stud. The two components contained in the capsule are mixed while the threaded stud is driven in, forming a fast setting adhesive. This time proven anchoring system does not apply expansion forces and allows for very close anchor spacing and edge distances in non-cracked concrete. The drill hole is sealed by the adhesive.



Applications

No security-relevant heavy duty anchorings in non-cracked concrete of steel supports, base plates, consoles, anti-noise barriers.

Chemical Capsule V-P



- Two component glass capsule
- Suitable in non-cracked concrete

Description	Ref. No.	Capsule Ø mm	Capsule length mm	Content of master box pcs.	Weight per master box kg	Package content pcs.	Weight per package kg
V-P 12	25101201	13	95	500	12,30	10	0,25
V-P 14	25101401	15	95	500	15,82	10	0,27
V-P 16	25101601	17	95	500	19,36	10	0,36
V-P 16 IG ¹⁾	25202201	22	115	-	-	10	0,98

¹⁾ For Internally Threaded Sleeve V-IG M 16.

Accessories for drill hole cleaning see page 149.

Internally Threaded Sleeve V-IG



- Steel, zinc plated, grade 5.8
- Fixture easy to remove; sealed drill hole

Description	Ref. No.	Suitable for capsule	Outer-Ø x Anchor length mm	Drill hole Ø x depth mm	Thread mm	Package content pcs.	Weight per package kg
V-IG M 8	24105101	V-P 12	12 x 90	14 x 90	M8 x 25	10	0,50
V-IG M 10	24205101	V-P 14	14 x 90	16 x 90	M10 x 30	10	0,65
V-IG M 12	24305101	V-P 16	16 x 100	18 x 100	M12 x 35	10	1,00
V-IG M 16	24505101	V-P 16 IG	22 x 120	25 x 120	M16 x 40	10	1,65

One setting tool is enclosed in every Internally Threaded Sleeve package.

Internally Threaded Sleeve V-IG A4



- Stainless steel A4/316
- Fixture easy to remove; sealed drill hole

Description	Ref. No.	Suitable for capsule	Outer-Ø x Anchor length mm	Drill hole Ø x depth mm	Thread mm	Package content pcs.	Weight per package kg
V-IG M 8 A4	24105501	V-P 12	12 x 90	14 x 90	M8 x 25	10	0,50
V-IG M 10 A4	24205501	V-P 14	14 x 90	16 x 90	M10 x 30	10	0,65
V-IG M 12 A4	24305501	V-P 16	16 x 100	18 x 100	M12 x 35	10	1,00
V-IG M 16 A4	24505501	V-P 16 IG	22 x 120	25 x 120	M16 x 40	10	1,65

One setting tool is enclosed in every Internally Threaded Sleeve package.

Recommended loads for single anchor without influence of spacing and edge distance for temperature range -40 °C to +50°C/+80 °C¹⁾.
 Total safety factor as per ETAG 001 included (γ_M and γ_P).

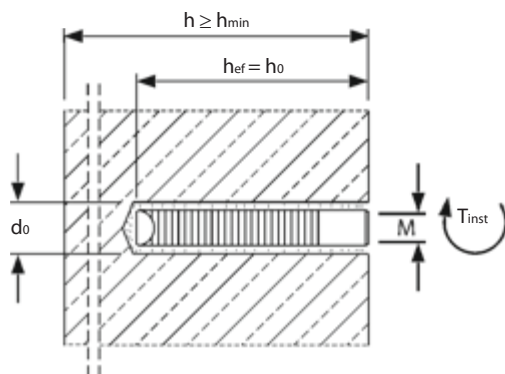
Loads and performance data	Chemical Anchor V-IG	M 8		M 10		M 12		M 16		
		steel 5.8	A4-70	steel 5.8	A4-70	steel 5.8	A4-70	steel 5.8	A4-70	
non-cracked concrete C20/25										
Mean ultimate loads, tension	Num	[kN]	20,4	46,7	31,9	54,6	46,2	77,4	86,4	96,8
Mean ultimate loads, shear	V _{um}	[kN]	12,1	15,5	19,1	24,4	27,8	35,4	51,7	65,8
Recommended loads, tension	rec. N	[kN]	8,8	9,9	13,2	13,2	16,0	16,0	18,8	18,8
Recommended loads, shear	rec. V	[kN]	5,2	5,9	8,3	9,3	12,0	13,5	22,4	25,1
Recommended bending moments	rec. M	[Nm]	10,7	12,1	21,4	24,1	37,4	41,9	94,9	107,0
Spacing and edge distance										
Effective anchorage depth	h _{ef}	[mm]	90		90		100		120	
Characteristic spacing	s _{cr, N}	[mm]	225		225		250		480	
Characteristic edge distance	c _{cr, N}	[mm]	115		115		125		240	
Minimum spacing	s _{min}	[mm]	45		45		50		75	
Minimum edge distance	c _{min}	[mm]	45		45		50		75	
Minimum thickness of concrete slab	h _{min}	[mm]	140		160		180		260	
Installation parameters										
Drill hole diameter	d _o	[mm]	14		16		18		25	
Clearance hole in the fixture	d _r	[mm]	9		12		14		18	
Depth of drill hole	h ₁	[mm]	90		90		100		120	
Installation torque	≤T _{inst}	[Nm]	10		20		40		80	

¹⁾ Max long term temperature +50 °C / max short term temperature +80 °C

Curing Time Chemical Anchor V-IG

→ Capsule temperature when installing min. +5°

Temperature (°C) of base material	curing time	
	dry base material	wet base material
-5°C to +4°C	5:00 h	10:00 h
+5°C to +19°C	1:00 h	2:00 h
+20°C to +29°C	20 min	40 min
≥ +30°C	10 min	20 min



Installation

