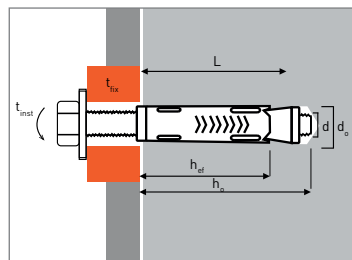




Heavy-duty expansion anchor for heavy-duty fixings
in concrete and solid masonry.



APPLICATIONS

- Metalwork
- Structures, profiles and rails
- Tie rods, cables and chains
- Railings, gates and grilles

MATERIAL

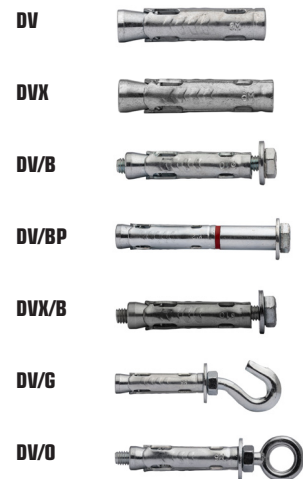
Sleeve:

DV Galvanised steel
DVX made of A2/AISI 304 stainless steel

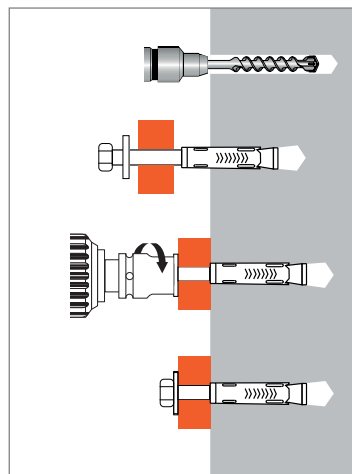
Screw:

DV made of grade 8.8 steel
DVX made of A2/AISI 304 stainless steel

VARIANTS



INSTALLATION



Technical Data

Anchor size	Ø screw thread (mm) d	Ø drilling (mm) d₀	Drilling depth (mm) h₀	Anchor length (mm) L	Max. Fixable thickness (mm) t_{fix}	Anchor depth (mm) h_{ef}	Max. tightening torque (Nm) T_{inst}	Internal dimensions of accessories (mm)	Code
DV sleeve only									
DV M6	6	10	55	45	t _{fix}	39,5	10	-	568820
DV M8	8	12	60	51	t _{fix}	44,5	25	-	568821
DV M10	10	14	70	60	t _{fix}	51,5	40	-	568822
DV M12	12	18	85	75	t _{fix}	63	75	-	568823
DVX sleeve only									
DVX M6	6	10	55	45	t _{fix}	39,5	10	-	568840
DVX M8	8	12	60	51	t _{fix}	44,5	25	-	568841
DVX M10	10	14	70	60	t _{fix}	51,5	40	-	568842
DVX M12	12	18	85	75	t _{fix}	63	75	-	568843
DV B screw									
DV/B M6x55	6	10	55	55	10	39,5	10	-	568824
DV/B M8x65	8	12	60	65	14	44,5	25	-	568825
DV/B M10x80	10	14	70	80	20	51,5	40	-	568826
DV/B M12x100	12	18	85	100	25	63	75	-	568827
DV BP screw and extension, for through-hole installation									
DV/BP M6x80	6	10	55	80	30	40,5	10	-	568828
DV/BP M8x90	8	12	60	90	35	45,5	25	-	568829
DV/BP M10x100	10	14	70	100	38	48,5	40	-	568830
DV/BP M12x120	12	18	85	120	43	57	75	-	568831
DVX B screw									
DVX/B M6x55	6	10	55	55	10	39,5	10	-	568844
DVX/B M8x65	8	12	60	65	14	44,5	25	-	568845
DVX/B M10x80	10	14	70	80	20	51,5	40	-	568846
DVX/B M12x100	12	18	85	100	25	63	75	-	568847
DV G hook									
DV/G M6x55	6	10	55	55	-	39,5	5	8	568832
DV/G M8x60	8	12	60	60	-	44,5	12	10	568833
DV/G M10x73	10	14	70	73	-	51,5	20	13	568834
DV/G M12x90	12	18	85	90	-	63	35	16	568835
DV O eyelet									
DV/O M6x55	6	10	55	55	-	39,5	5	10	568836
DV/O M8x60	8	12	60	60	-	44,5	12	12	568837
DV/O M10x73	10	14	70	73	-	51,5	20	15	568838
DV/O M12x90	12	18	85	90	-	63	35	17	568839



Minimum clearances and installation specifications

Unit of measurement = mm	acronym	M6	M8	M10	M12	M16
Critical centre distance	$s_{cr,N}$	120	135	155	190	320
Critical distance from the edge	$c_{cr,N}$	60	75	90	120	170
Minimum centre distance	s_{min}	65	90	135	165	130
Minimum distance from the edge	c_{min}	45	70	85	115	115
Minimum thickness of the substrate	h	135	135	140	160	140

Characteristic strengths – Uncracked concrete C20/25

Sleeve only, B and BP screws	acronym	um	M6	M8	M10	M12
Characteristic tensile strength	$N_{Rk,p}$	kN	9,0	12,0	16,0	20,0
Characteristic shear strength	$V_{Rk,s}$	kN	8,0	14,6	23,2	33,7
Characteristic bending moment	$M_{Rk,s}$	Nm	12,2	30,0	59,8	104,8

Recommended strengths – Uncracked concrete C20/25

Sleeve only, B and BP screws	acronym	um	M6	M8	M10	M12
Recommended tensile strength	N_{rec}	kN	3,5	4,0	5,4	9,5
Recommended shear strength	V_{rec}	kN	4,5	8,3	13,2	19,2
Recommended bending moment	M_{rec}	Nm	6,9	17,1	34,1	59,8

G hook	acronym	um	M6	M8	M10	M12
Recommended resistance	N_{rec}	kN	0,35	0,75	1,05	1,6

O ring	acronym	um	M6	M8	M10	M12
Recommended resistance	N_{rec}	kN	1,4	2,4	3,6	6