

W-VI/S / W-VI/F INJECTION SYSTEM

23.8

Performance data				M8	M10	M12	M16	M20	M24	M30
Perm. centr. tensile load ¹⁾ on a single anchor without edge influence	Pressure zone (uncracked concrete C20/25 ²⁾ , $s \geq 2 h_{ef}$, $c \geq 1 h_{ef}$)	N_{perm} [kN] = C20/25 ²⁾	50°C ³⁾ / 80°C ⁴⁾	7.6	11.9	16.7	23.8	45.2	54.8	81.0
			72°C ³⁾ / 120°C ⁴⁾	5.7	7.6	11.9	19.1	28.6	35.7	54.8
Perm. transverse load ¹⁾ on a single anchor without edge influence	Pressure zone (uncracked concrete C20/25 ²⁾ , $c \geq 10 h_{ef}$)	V_{perm} [kN] = C20/25 ²⁾		5.1	8.6	12.0	22.3	34.9	50.3	80.0
Permissible bending torque		M_{perm} [Nm]		10.9	21.1	37.1	94.3	185.7	320.6	642.3
Fire resistance duration ³⁾		F30 [kN]		1.9	4.5	6.0	11.0	16.0	19.83	31.52
		F60 [kN]		0.85	2.1	3.0	6.6	9.0	11.49	18.25
		F90 [kN]		0.55	1.35	2.0	4.9	6.4	7.31	11.62
		F120 [kN]		0.4	1.0	1.5	4.0	5.0	5.23	8.31

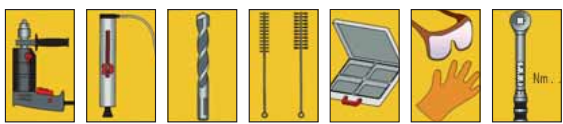
Characteristic values		M8	M10	M12	M16	M20	M24	M30
Minimum axial spacing	s_{min} [mm]	40	45	55	65	85	105	135
Axial spacing	$s_{cr,N}$ [mm]	160	180	220	250	340	420	540
Minimum edge spacing	c_{min} [mm]	40	45	55	65	85	105	135
Edge spacing	$c_{cr,N}$ [mm]	80	90	110	125	170	210	270
Minimum component thickness	h_{min} [mm]	100	130	160	200	220	280	350
Reduced minimum component thickness	$h_{min,red}$ [mm]	-	120	140	160	-	-	-
Effective anchoring depth	h_{ef} [mm]	80	90	110	125	170	210	270
Nom. drill dia.	d_0 [mm]	10	12	14	18	22	26	32
Drill hole depth	$h_0 \geq$ [mm]	80	90	110	125	170	210	270
Through-hole in the component being connected	$d_f \leq$ [mm]	9	12	14	18	22	26	33
Torque while installing anchor	T_{inst} [Nm]	10	20	40	60	120	150	300
Cleaning brush dia.	$D \geq$ [mm]	11	13	15	19	23	27	34

Drill hole cleaning		M8 - M16: Blow out 2x, brush out mechanically 2x, blow out 2x M20 - M30: Blow-out with compressed air (6 bar) 2x, brush-out mechanically 2x, blow-out with compressed air (6 bar) 2x							
Cleaning Brush (Steel)	Art. No. P.Qty = 1	0905 499 001	0905 499 002	0905 499 003	0905 499 004	0905 499 007	0905 499 006	Special order	
Machine Mount	Art. No. P.Qty = 1	Hexagon: Art. No. 0905 499 101 SDS-plus: Art. No. 0905 499 102							
Extension	Art. No. P.Qty = 1	0905 499 111							
Brush Template	Art. No. P.Qty = 1	0905 499 099							
Blow-Out Pump / Compressed-Air Nozzle designed for Art. No. 0714 92 13	Art. No. P.Qty = 1	Blow-Out Pump: Art. No. 0903 990 001					Compressed-Air Nozzle ⁵⁾ : Art. No. 0905 499 201		

Anchor dimensions		M8	M10		M12			M16			M20		M24	M30								
Anchor diameter																						
Total length	l [mm]	110	150	115	130	165	190	135	160	210	250	300	165	190	230	250	300	220	260	300	260	300
Max. attachment height	t_{fix} [mm]	20	60	15	30	65	90	10	35	85	125	175	20	45	85	105	155	20	60	100	15	55
Designation		W-VI-A/S M8-20/110	W-VI-A/S M8-60/150	W-VI-A/S M10-15/115	W-VI-A/S M10-30/130	W-VI-A/S M10-65/165	W-VI-A/S M10-90/190	W-VI-A/S M12-10/135	W-VI-A/S M12-35/160	W-VI-A/S M12-85/210	W-VI-A/S M12-125/250	W-VI-A/S M12-175/300	W-VI-A/S M16-20/165	W-VI-A/S M16-45/190	W-VI-A/S M16-85/230	W-VI-A/S M16-105/250	W-VI-A/S M16-155/300	W-VI-A/S M20-20/220	W-VI-A/S M20-60/260	W-VI-A/S M20-100/300	W-VI-A/S M24-15/260	W-VI-A/S M24-55/300
Anchor bar W-VI-A/S Galvanized steel	Art. No.	5915 108 110	5915 108 150	5915 110 115	5915 110 130	5915 110 165	5915 110 190	5915 112 135	5915 112 160	5915 112 210	5915 112 250	5915 112 300	5915 116 165	5915 116 190	5915 116 230	5915 116 250	5915 116 300	5915 120 220	5915 120 260	5915 120 300	5915 124 260	5915 124 300
Packing unit	P.Qty.	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	5
WIT-VM 200 Mortar Cartridge	Art. No.	Mortar Cartridge, 330 ml (incl. 1 static mixer) Art. No. 0903 450 003 P.Qty. = 1/12																				
Number of attachment points/cartridge	Approx. qty.	47	35	23			14	8		5	3											
Application Gun	Art. No. P.Qty = 1	Application gun: Art. No. 0891 003 Art. No. 0891 007..																				
Static Mixer	Art. No. P.Qty = 10	0903 420 001																				
Extension for static mixer	Art. No. P.Qty = 10	0903 420 004																				

Available on special order

Würth system components



¹⁾ The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of $\gamma_F = 1.4$ have been taken into account. For the combination of tensile and transverse loads, for edge influence and anchor groups, please refer to the Guideline for European Technical Approval (ETAG), Appendix C.

²⁾ The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.

³⁾ Maximum long-term temperature

⁴⁾ Maximum short-term temperature

⁵⁾ Compressed air nozzle designed for blow-out gun Art. No. 0714 92 13