

PLAKA – VEMO COUPLER

Coupling system with internal thread

REF 01.02.03 - Version V01 - 10/08/2020



Description

The Vemo coupling systems with screwed and crimped sleeve are used to achieve mechanical connections of welded steel reinforcement. The system consists of socket bars type 4010 and connector bars type 2020 with a 12 mm, 16 mm, 20 mm, 25 mm and 32 mm diameter. This system guarantees 100% load transfer in both tensile and shear forces. The threaded sleeves are equipped with internal isometric, parallel threads and are electrolytically galvanized.

Plastic screw caps protect the threaded sleeve against the penetration of dirt and concrete water.

The socket bars are fastened to the formwork with plastic nailing plates.

Application fields

The Vemo coupling system can be used in numerous applications for tensile, pressure-and shear applications, including:

- floorslab / wall / column / beam connections
- concrete steel connections
- connection of concrete elements

Properties

Mechanical properties	
Steel quality of the bars Ø 12, 16, 20, 25 and 32 mm	Steel B500B
Steel quality of the sleeves	Steel precision tube
Technical advice	KIWA-certification
Design loads of Vemo coupling system	Based on load capacity (yield) of the reinforcement bars
Static applications	Ø 12, 16, 20, 25 and 32 mm
Dynamic applications with a voltage of 66 N/mm ²	Ø 20 and 25 mm

Torques

Diameter Bar [mm]	12	16	20	25	32
Torque [Nm]	75	100	160	250	400

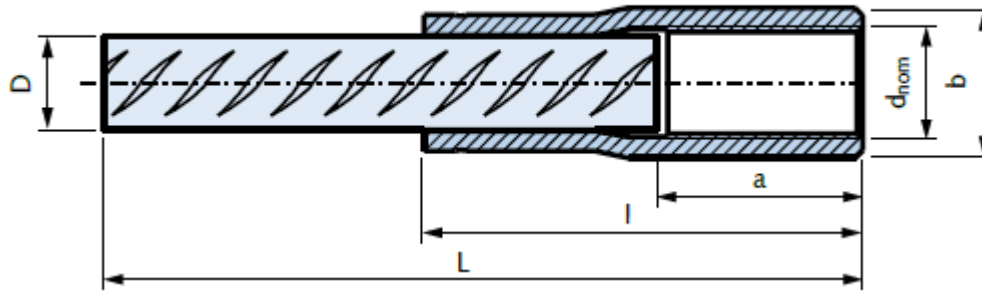
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Dimensions



Socket bar 4010

Socket bar 4010 consists of a rebar with a crimped sleeve

Dimensions								
	Diameter Bar D [mm]	Diameter Wire d _{nom} [mm]	Length L [mm]	a [mm]	b [mm]	l [mm]	Weight [kg]	Code
	Socket bar 4010	12	M16	415	25	21	58	0,42
615				0,60				VM941120615
840				0,81				VM941120840
1040				0,99				VM941121040
16		M20	560	33	26	71	0,98	VM941160560
			810				1,38	VM941160810
			1060				1,78	VM941161060
			1480				2,46	VM941161480
20		M24	705	38	32	90	1,93	VM941200705
			1005				2,69	VM941201005
			1320				3,48	VM941201320
25		M30	1055	48	40	114	4,46	VM941251055
			1555				6,42	VM941251555
			2315				9,41	VM941252315
32		M42	1490	65	54	140	10,51	VM941321490
			2390				16,30	VM941322390

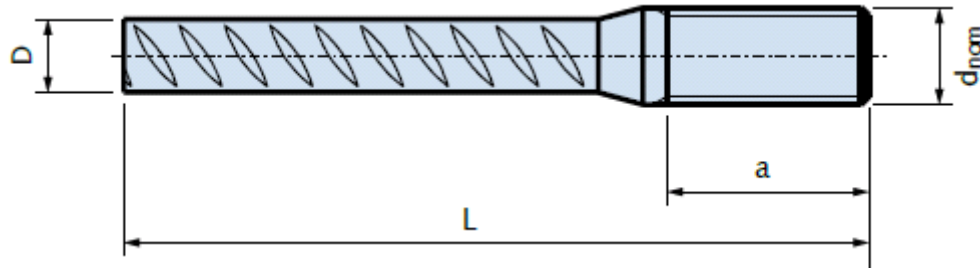
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Connector bar 2020

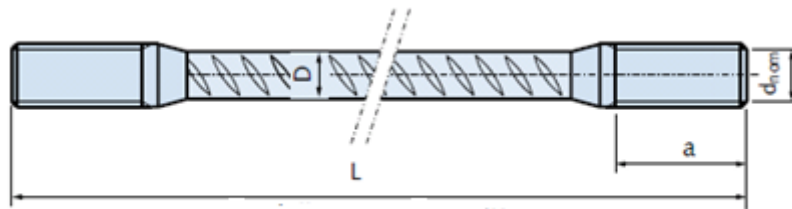
Connector bar 2020 consists of a forged rebar with rolled isometric thread at the end of the rebar.

Dimensions						
	Diameter Bar D [mm]	Diameter Wire d _{nom} [mm]	Length L [mm]	a [mm]	Weight [kg]	Code
Connector bar 2020	12	M16	375	≥25	0,31	VM920120375
			575		0,49	VM920120575
			800		0,70	VM920120800
			1000		0,91	VM920121000
	16	M20	520	≥33	0,80	VM920160520
			770		1,17	VM920160770
			1020		1,58	VM920161020
			1440		2,28	VM920161440
	20	M24	665	≥38	1,63	VM920200665
			965		2,31	VM920200965
			1280		3,12	VM920201280
	25	M30	1000	≥48	3,73	VM920251000
			1500		5,67	VM920251500
			2260		8,72	VM920252260
	32	M42	1400	≥65	8,82	VM920321400
			2300		14,60	VM920322300

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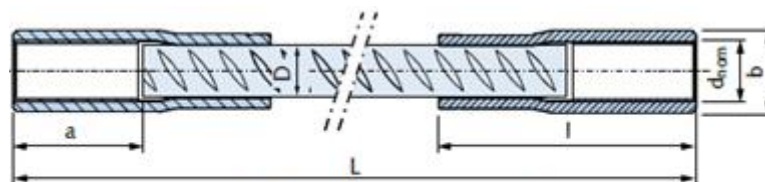


Specify size L when ordering

Type 2040

The special double connector bar type 2040 consists of a forged rebar with screwed isometric screw thread on both ends.

Dimensions					
	Diameter Bar D [mm]	Diameter Wire d _{nom} [mm]	Minimum length L _{min} [mm]	a [mm]	Code
Type 2040	12	M16	250	≥25	On request
	16	M20	250	≥33	
	20	M24	250	≥38	
	25	M30	300	≥48	
	32	M42	500	≥65	



Specify size L when ordering

Type 4030

The special socket bar type 4030 consists of a rebar with a crimped sleeve on both ends.

Dimensions							Code
	Diameter Bar D [mm]	Diameter Wire d _{nom} [mm]	Minimum Length L _{min} [mm]	a [mm]	b [mm]	l [mm]	
Type 4030	12	M16	235	25	21	58	On request
	16	M20	235	33	26	71	
	20	M24	235	38	32	90	
	25	M30	250	48	40	114	
	32	M42	350	65	54	140	

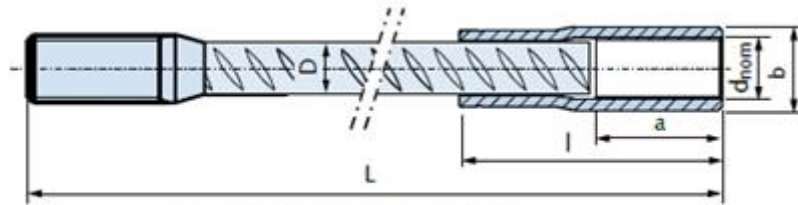
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Type 4035

The special socket and connector bar type 4035 consists of a rebar with a crimped sleeve at one end and a screwed isometric screw thread at the end of the rebar.

Dimensions							Code
Diameter Bar D [mm]	Diameter Wire d_{nom} [mm]	Minimum Length L_{min} [mm]	a [mm]	b [mm]	l [mm]		
Type 4035	12	M16	200	25	21	58	On request
	16	M20	200	33	26	71	
	20	M24	200	38	32	90	
	25	M30	250	48	40	114	
	32	M42	250	65	54	140	

Accessories

Accessories					
	Diameter D [mm]	Metric M [mm]	Number [p/box]	Weight [Kg/100]	Code
<p>Plastic sealing cap</p>	14,50	M16	100	0,05	VM144160000
	18,00	M20	100	0,07	VM144200000
	21,50	M24	100	0,10	VM144240000
	27,00	M30	100	0,27	VM144300000
	38,40	M42	100	-	On request
<p>Plastic nailing plates</p>	60,00	M16	100	0,95	RS9827
		M20		1,02	RS9828
		M24		1,20	RS9829
		M30		1,35	RS9831

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