



Technical Description

Coupling for the medical field in POM of USP class VI with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media.

Coupling system with single-hand operation. The new type of plastic locking system with handy sleeve considerably expands the applications. The color and mechanical coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling. The coupling is also available straight-through (with no valve).

Working Temperature

-20°C up to +80°C

Other designs in series 21

The following other designs can be found from page:

- ▶ Brass / Steel P. 30
- ▶ Stainless Steel P. 192
- ▶ Thermoplastic P. 232
- ▶ Safety P. 270
- ▶ Coded Systems P. 298



Working Pressure**

0-10 bar

** maximum static working pressure with design factor 4 to 1.

0-10 bar

Material

Coupling: POM, USP Class VI, white

Plug: POM, USP Class VI, white

Seals: EPDM USP Class VI

Coupling: POM, USP Class VI, white

Plug: POM, USP Class VI, white

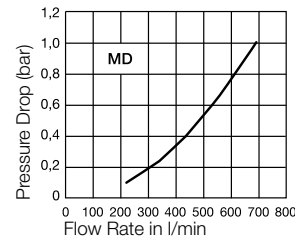
Seals: EPDM USP Class VI

Interchangeability

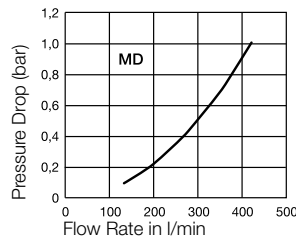
- Rectus 21

Flow diagrams

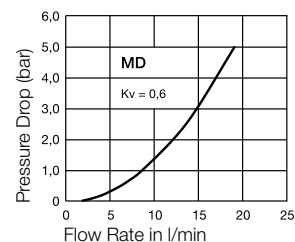
Air



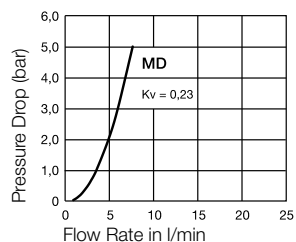
Air

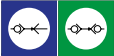


Water



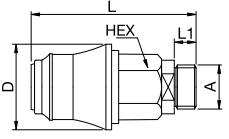
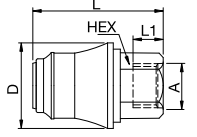
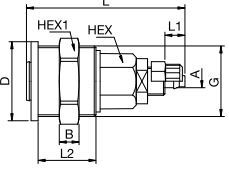
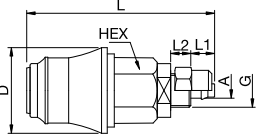
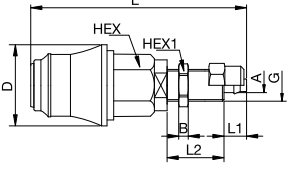
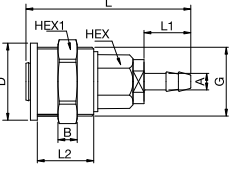
Water





Couplings – with valve

Series MD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	G 1/8	17		50	7			25,5					MD-M51-2MB
	G 1/4	17		50	7			25,5					MD-M51-4MB
 <p>Female Thread</p>	G 1/8	17		50	8			25,5					MD-M51-2FB
	G 1/4	17		50	9			25,5					MD-M51-4FB
 <p>Plastic Hose Connection, Flush Mount</p>	4 x 6 mm	17	27	56	7	20,5		28	7	M 25 x 1			MD-M51-QM6CSP
	6 x 8 mm	17	27	56	7	20,5		28	7	M 25 x 1			MD-M51-QM8CSP
 <p>with Plastic Hose Connection</p>	4 x 6 mm	17		56	7	6		25,5		M 10 x 1			MD-M51-M6CSP
	6 x 8 mm	17		56	7	6		25,5		M 12 x 1			MD-M51-M8CSP
 <p>Panel Mount with Plastic Hose Connection</p>	4 x 6 mm	17	14	68	7	18		25,5	4	M 10 x 1			MD-M51-HM6CSP
	6 x 8 mm	17	17	68	7	18		25,5	4	M 12 x 1			MD-M51-HM8CSP
 <p>Hose Barb, Flush Mount</p>	4 mm	17	27	60	17	20,5		28	7	M 25 x 1			MD-M51-QM4HB
	6 mm	17	27	60	17	20,5		28	7	M 25 x 1			MD-M51-QM6HB



WE MAKE YOUR TECHNOLOGY WORK

⚠ Please consider our security advices on the pages 12/13 ⚠



Couplings – with valve

Series MD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Hose Barb	4 mm	17		60	17			25,5					MD-M51-M4HB
	6 mm	17		60	17			25,5					MD-M51-M6HB
 Panel Mount with Hose Barb	4 mm	17	14	74	17	14		25,5	4	M 10 x 1			MD-M51-HM4HB
	6 mm	17	17	74	17	14		25,5	4	M 12 x 1			MD-M51-HM6HB



Plugs – without valve

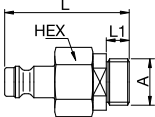
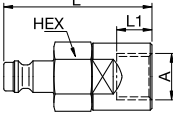
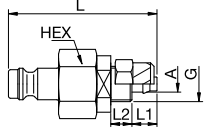
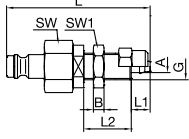
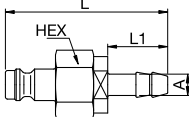
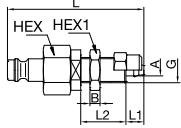
Series MD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	44	7	18			4	M 10 x 1			MD-M54-HM6CSP
	6 x 8 mm	14	14	44	7	18			4	M 12 x 1			MD-M54-HM8CSP
 Hose Barb	4 mm			32	17								MD-M54-M4HB
	6 mm			32	17								MD-M54-M6HB
 Panel Mount with Hose Barb	4 x 6 mm	14	14	50	17	14			4	M 10 x 1			MD-M54-HM4HB
	6 x 8 mm	14	17	50	17	14			4	M 12 x 1			MD-M54-HM6HB

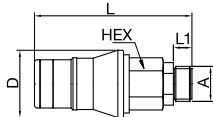
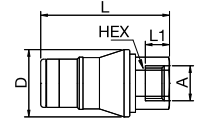
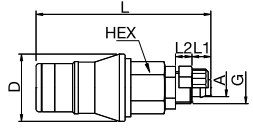


WE MAKE YOUR TECHNOLOGY WORK



	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	G 1/8	17		36	7								MD-M52-2MB
	G 1/4	17		38	7								MD-M52-4MB
 <p>Female Thread</p>	G 1/8	17		39	8								MD-M52-2FB
	G 1/4	17		42	10								MD-M52-4FB
 <p>with Plastic Hose Connection</p>	4 x 6 mm	17		42	7	6				M 10 x 1			MD-M52-M6CSP
	6 x 8 mm	17		42	7	6				M 12 x 1			MD-M52-M8CSP
 <p>Panel Mount with Plastic Hose Connection</p>	4 x 6 mm	17		48	7	18		4		M 10 x 1			MD-M52-HM6CSP
	6 x 8 mm	17		52	7	18		4		M 12 x 1			MD-M52-HM8CSP
 <p>Hose Barb</p>	4 mm	17		46	17								MD-M52-M4HB
	6 mm	17		46	17								MD-M52-M6HB
 <p>Panel Mount with Hose Barb</p>	4 mm	17	14	60	17	14		4		M 10 x 1			MD-M52-HM4HB
	6 mm	17	17	60	17	14		4		M 12 x 1			MD-M52-HM6HB

Couplings – with valve **Series MD coded**

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Co- ding Ring	Part Number
 <p>Male Thread</p>	G 1/8	17	59,5	7			25,5				green - 0	MD-M51-2MB-K0
	G 1/8	17	59,5	7			25,5				black - 2	MD-M51-2MB-K2
	G 1/8	17	59,5	7			25,5				brown - 3	MD-M51-2MB-K3
	G 1/8	17	59,5	7			25,5				yellow - 5	MD-M51-2MB-K5
	G 1/8	17	59,5	7			25,5				blue - 6	MD-M51-2MB-K6
	G 1/8	17	59,5	7			25,5				red - 8	MD-M51-2MB-K8
	G 1/4	17	59,5	7			25,5				green - 0	MD-M51-4MB-K0
	G 1/4	17	59,5	7			25,5				black - 2	MD-M51-4MB-K2
	G 1/4	17	59,5	7			25,5				brown - 3	MD-M51-4MB-K3
	G 1/4	17	59,5	7			25,5				yellow - 5	MD-M51-4MB-K5
	G 1/4	17	59,5	7			25,5				blue - 6	MD-M51-4MB-K6
	G 1/4	17	59,5	7			25,5				red - 8	MD-M51-4MB-K8
 <p>Female Thread</p>	G 1/8	17	62,5	9			25,5				green - 0	MD-M51-2FB-K0
	G 1/8	17	62,5	9			25,5				black - 2	MD-M51-2FB-K2
	G 1/8	17	62,5	9			25,5				brown - 3	MD-M51-2FB-K3
	G 1/8	17	62,5	9			25,5				yellow - 5	MD-M51-2FB-K5
	G 1/8	17	62,5	9			25,5				blue - 6	MD-M51-2FB-K6
	G 1/8	17	62,5	9			25,5				red - 8	MD-M51-2FB-K8
	G 1/4	17	48,5	9			25,5				green - 0	MD-M51-4FB-K0
	G 1/4	17	48,5	9			25,5				black - 2	MD-M51-4FB-K2
	G 1/4	17	48,5	9			25,5				brown - 3	MD-M51-4FB-K3
	G 1/4	17	48,5	9			25,5				yellow - 5	MD-M51-4FB-K5
	G 1/4	17	48,5	9			25,5				blue - 6	MD-M51-4FB-K6
	G 1/4	17	48,5	9			25,5				red - 8	MD-M51-4FB-K8
 <p>with Plastic Hose Connection</p>	4 x 6 mm	17	65,5	7	6		25,5		M 10 x 1		green - 0	MD-M51-M6CSP-K0
	4 x 6 mm	17	65,5	7	6		25,5		M 10 x 1		black - 2	MD-M51-M6CSP-K2
	4 x 6 mm	17	65,5	7	6		25,5		M 10 x 1		brown - 3	MD-M51-M6CSP-K3
	4 x 6 mm	17	65,5	7	6		25,5		M 10 x 1		yellow - 5	MD-M51-M6CSP-K5
	4 x 6 mm	17	65,5	7	6		25,5		M 10 x 1		blue - 6	MD-M51-M6CSP-K6
	4 x 6 mm	17	65,5	7	6		25,5		M 10 x 1		red - 8	MD-M51-M6CSP-K8
	6 x 8 mm	17	65,5	7	6		25,5		M 12 x 1		green - 0	MD-M51-M8CSP-K0
	6 x 8 mm	17	65,5	7	6		25,5		M 12 x 1		black - 2	MD-M51-M8CSP-K2
	6 x 8 mm	17	65,5	7	6		25,5		M 12 x 1		brown - 3	MD-M51-M8CSP-K3
	6 x 8 mm	17	65,5	7	6		25,5		M 12 x 1		yellow - 5	MD-M51-M8CSP-K5
	6 x 8 mm	17	65,5	7	6		25,5		M 12 x 1		blue - 6	MD-M51-M8CSP-K6
	6 x 8 mm	17	65,5	7	6		25,5		M 12 x 1		red - 8	MD-M51-M8CSP-K8

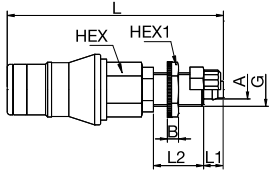
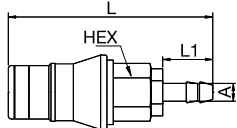
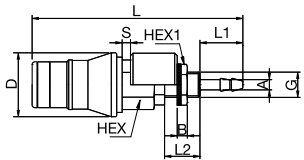


WE MAKE YOUR TECHNOLOGY WORK



Couplings – with valve

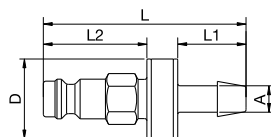
Series MD coded

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Panel Mount with Plastic Hose Connection</p>	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		green - 0	MD-M51-HM6CSP-K0
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		black - 2	MD-M51-HM6CSP-K2
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		brown - 3	MD-M51-HM6CSP-K3
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		yellow - 5	MD-M51-HM6CSP-K5
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		blue - 6	MD-M51-HM6CSP-K6
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		red - 8	MD-M51-HM6CSP-K8
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		green - 0	MD-M51-HM8CSP-K0
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		black - 2	MD-M51-HM8CSP-K2
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		brown - 3	MD-M51-HM8CSP-K3
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		yellow - 5	MD-M51-HM8CSP-K5
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		blue - 6	MD-M51-HM8CSP-K6
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		red - 8	MD-M51-HM8CSP-K8
 <p>Hose Barb</p>	4 mm	17		69,5	17			25,5				green - 0	MD-M51-M4HB-K0
	4 mm	17		69,5	17			25,5				black - 2	MD-M51-M4HB-K2
	4 mm	17		69,5	17			25,5				brown - 3	MD-M51-M4HB-K3
	4 mm	17		69,5	17			25,5				yellow - 5	MD-M51-M4HB-K5
	4 mm	17		69,5	17			25,5				blue - 6	MD-M51-M4HB-K6
	4 mm	17		69,5	17			25,5				red - 8	MD-M51-M4HB-K8
	6 mm	17		69,5	17			25,5				green - 0	MD-M51-M6HB-K0
	6 mm	17		69,5	17			25,5				black - 2	MD-M51-M6HB-K2
	6 mm	17		69,5	17			25,5				brown - 3	MD-M51-M6HB-K3
	6 mm	17		69,5	17			25,5				yellow - 5	MD-M51-M6HB-K5
	6 mm	17		69,5	17			25,5				blue - 6	MD-M51-M6HB-K6
	6 mm	17		69,5	17			25,5				red - 8	MD-M51-M6HB-K8
 <p>Panel Mount with Hose Barb</p>	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	green - 0	MD-M51-HM4HB-K0
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	black - 2	MD-M51-HM4HB-K2
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	brown - 3	MD-M51-HM4HB-K3
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	yellow - 5	MD-M51-HM4HB-K5
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	blue - 6	MD-M51-HM4HB-K6
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	red - 8	MD-M51-HM4HB-K8
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	green - 0	MD-M51-HM6HB-K0
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	black - 2	MD-M51-HM6HB-K2
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	brown - 3	MD-M51-HM6HB-K3
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	yellow - 5	MD-M51-HM6HB-K5
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	blue - 6	MD-M51-HM6HB-K6
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	red - 8	MD-M51-HM6HB-K8



WE MAKE YOUR TECHNOLOGY WORK

⚠ Please consider our security advices on the pages 12/13 ⚠



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
4 mm			32	17							green - 0	MD-M54-M4HB-K0
4 mm			32	17							black - 2	MD-M54-M4HB-K2
4 mm			32	17							brown - 3	MD-M54-M4HB-K3
4 mm			32	17							yellow - 5	MD-M54-M4HB-K5
4 mm			32	17							blue - 6	MD-M54-M4HB-K6
4 mm			32	17							red - 8	MD-M54-M4HB-K8
6 mm			32	17							green - 0	MD-M54-M6HB-K0
6 mm			32	17							black - 2	MD-M54-M6HB-K2
6 mm			32	17							brown - 3	MD-M54-M6HB-K3
6 mm			32	17							yellow - 5	MD-M54-M6HB-K5
6 mm			32	17							blue - 6	MD-M54-M6HB-K6
6 mm			32	17							red - 8	MD-M54-M6HB-K8
10 mm			32	17							green - 0	MD-M54-M10HB-K0
10 mm			32	17							black - 2	MD-M54-M10HB-K2
10 mm			32	17							brown - 3	MD-M54-M10HB-K3
10 mm			32	17							yellow - 5	MD-M54-M10HB-K5
10 mm			32	17							blue - 6	MD-M54-M10HB-K6
10 mm			32	17							red - 8	MD-M54-M10HB-K8



WE MAKE YOUR TECHNOLOGY WORK