



**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



**Working Pressure\*\***

0-10 bar

\*\* maximum static working pressure with safety 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

**Other designs in series 21**

The following other designs can be found from page:

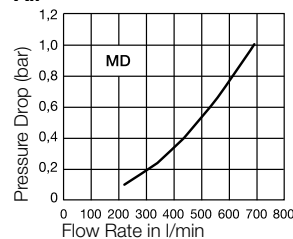
- Brass / Steel P. 30
- Stainless Steel P. 192
- Thermoplastic P. 232
- Safety P. 270
- Coded Systems P. 298

**Interchangeability**

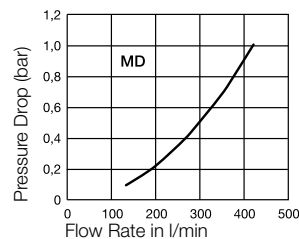
- Rectus 21

**Flow diagrams**

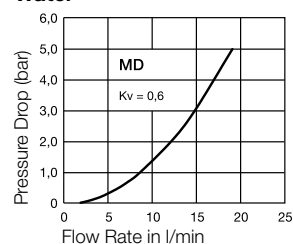
**Air**



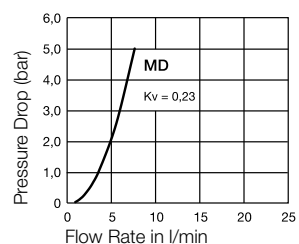
**Air**



**Water**



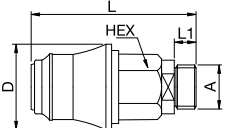
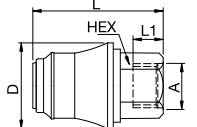
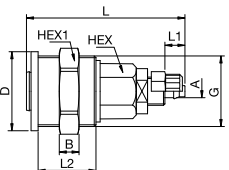
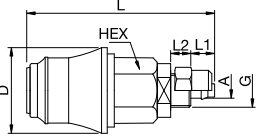
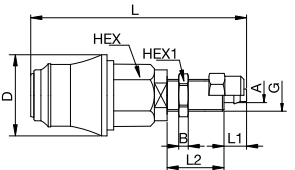
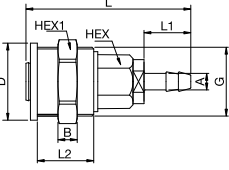
**Water**

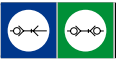




# Couplings – with valve

# 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



## 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>Hose Barb</p>	4 mm	17		60	17			25,5					MD-M51-M4HB
	6 mm	17		60	17			25,5					MD-M51-M6HB
<p>Panel Mount with Hose Barb</p>	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

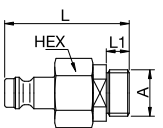
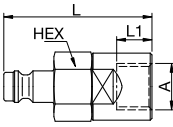
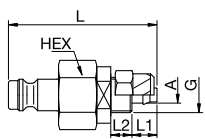
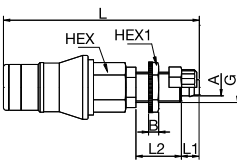
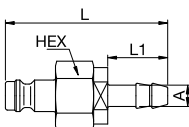
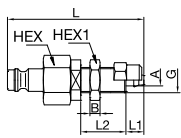
## Series MD

	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
<p>Panel Mount with Plastic Hose Connection</p>	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
<p>Hose Barb</p>	4 mm			32	17								MD-M54-M4HB
	6 mm			32	17								
<p>Panel Mount with Hose Barb</p>	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

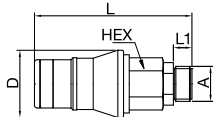
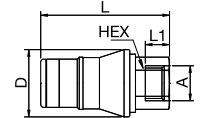
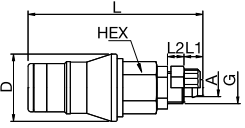


# Plugs – with valve

# 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
 Male Thread	G 1/8	17		36	7								MD-M52-2MB
	G 1/4	17		38	7								MD-M52-4MB
 Female Thread	G 1/8	17		39	8								MD-M52-2FB
	G 1/4	17		42	10								MD-M52-4FB
 with Plastic Hose Connection	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
 Panel Mount with Plastic Hose Connection	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
 Hose Barb	4 mm	17		46	17								MD-M52-M4HB
	6 mm	17		46	17								MD-M52-M6HB
 Panel Mount with Hose Barb	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

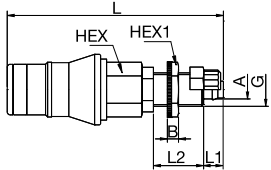
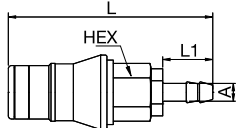
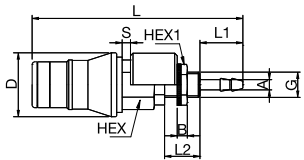
**Couplings – with valve** **Series MD coded**

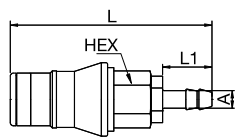
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	G 1/8	17		59,5	7			25,5				green - 0	MD-M51-2MB-K0
	G 1/8	17		59,5	7			25,5				black - 2	MD-M51-2MB-K2
	G 1/8	17		59,5	7			25,5				brown - 3	MD-M51-2MB-K3
	G 1/8	17		59,5	7			25,5				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



# 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



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