



**Other designs in series 20**

The following other designs can be found from page:

- ▶ Brass / Steel P. 20
- ▶ Stainless Steel P. 180

**Technical Description**

Mini medical coupling. Notable for low weight, small package size and numerous application options with various media. Frequently used for non-invasive blood pressure measurement devices, medical device technology and chemistry/pharmacy. The main components are molded in a clean room from virgin transparent USP Class VI acetal (POM). Coupling system with single-hand operation. Audible click to indicate a secure connection. Ergonomic sleeve for easy operation with gloves.

**Working Temperature**

-20°C up to +80°C



**Working Pressure\*\***

0-4,5 bar

\*\* maximum static working pressure with safety factor 4 to 1.

**Material**

**Coupling:** Acetal (POM), natural color, USP Class VI

**Plug:** Acetal (POM), natural color, USP Class VI

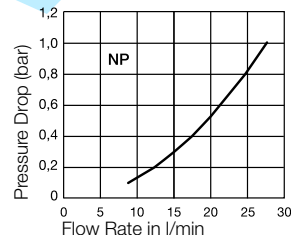
**Seals:** EPDM USP Class VI

**Interchangeability**

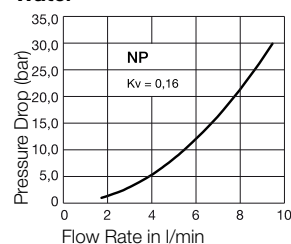
- Rectus 20

**Flow diagrams**

**Air**



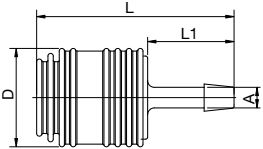
**Water**





## Couplings – without valve

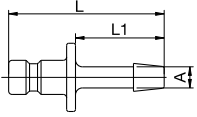
Series NP

 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
		3 mm			29,7	13			14,8				
	4 mm			29,7	13			14,8					NP-M33-M4HB
	5 mm			29,7	13			14,8					NP-M33-M5HB



## Plugs – without valve

Series NP

 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
		3 mm			22,8	13							
	4 mm			22,8	13								NP-M34-M4HB
	5 mm			22,8	13								NP-M34-M5HB

KONVEX



**Technical Description**

Plastic coupling in nominal diameter 3 mm. The system is particularly suited to use with weak alkalis and acids. The coupling stands out for its light weight and intuitive operation. Secure sealing is indicated by an audible click.

**Working Temperature**

-40°C up to +82°C

**KF** Straight-Through

**KA** Single Shut-Off

**KB** Double Shut-Off

**Working Pressure\*\***

0-8 bar  
 \*\* maximum static working pressure with safety factor 4 to 1.

0-8 bar

0-8 bar

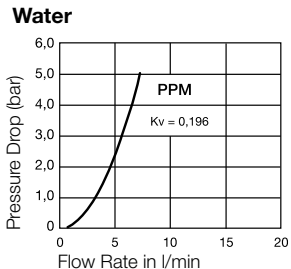
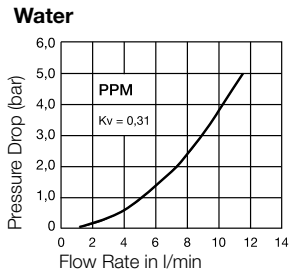
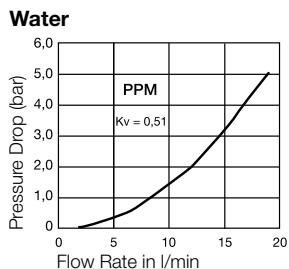
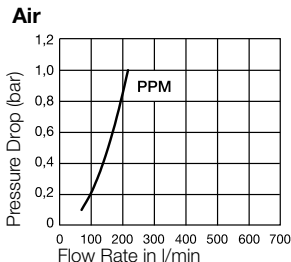
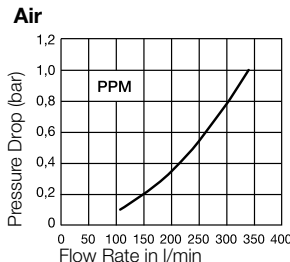
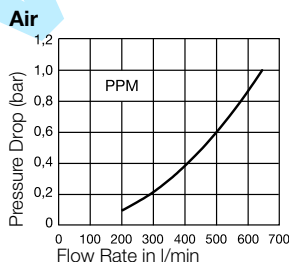
**Material**

**Coupling:** Acetal (POM), natural color, USP Class VI  
**Plug:** Acetal (POM), natural color, USP Class VI  
**Seals:** FDA Buna-N

**Coupling:** Acetal (POM), natural color, USP Class VI  
**Plug:** Acetal (POM), natural color, USP Class VI  
**Seals:** FDA Buna-N

**Coupling:** Acetal (POM), natural color, USP Class VI  
**Plug:** Acetal (POM), natural color, USP Class VI  
**Seals:** FDA Buna-N

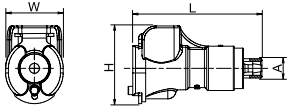
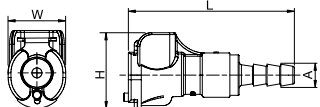
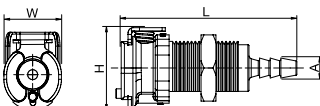
**Flow diagrams**





## Couplings – without valve

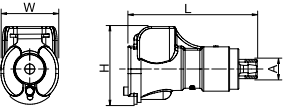
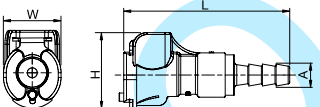
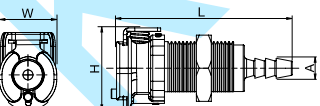
## Series PPM

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	1/8" BSPT		15,7	25,4				20,3					PPM-123-2MBT
	1/4" BSPT		15,7	27,9				20,3					PPM-123-4MBT
 <p>Hose Barb</p>	3,2 mm		15,7	41,9				20,3					PPM-123-2HB
	4,8 mm		15,7	43,7				20,3					PPM-123-3HB
	6,0 mm		15,7	45,7				20,3					PPM-123-4HB
 <p>Panel Mount with Hose Barb</p>	6,0 mm		15,7	45,7				20,3					PPM-123-H4HB



## Couplings – with valve

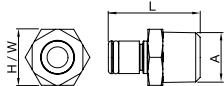
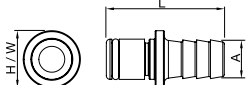
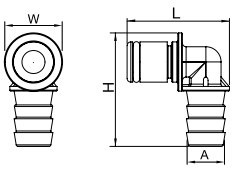
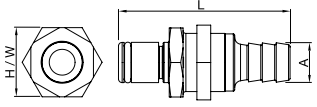
## Series PPM

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	1/8" BSPT		15,7	25,4				20,3					PPM-121-2MBT
	1/4" BSPT		15,7	27,9				20,3					PPM-121-4MBT
 <p>Hose Barb</p>	3,2 mm		15,7	41,9				20,3					PPM-121-2HB
	4,8 mm		15,7	43,7				20,3					PPM-121-3HB
	6,0 mm		15,7	45,7				20,3					PPM-121-4HB
 <p>Panel Mount with Hose Barb</p>	1,6 mm		15,7	38,1				20,3					PPM-121-H1HB
	3,2 mm		15,7	41,9				20,3					PPM-121-H2HB
	4,8 mm		15,7	43,7				20,3					PPM-121-H3HB
	6,0 mm		15,7	45,7				20,3					PPM-121-H4HB



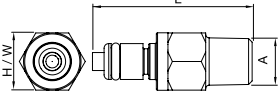
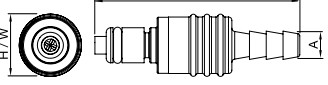
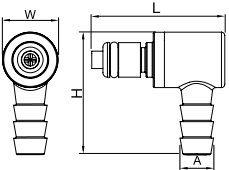
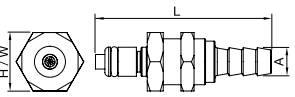
Plugs – without valve

Series PPM

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number	
 <p>Male Thread</p>	1/8" BSPT		12,4	26,2				12,4					PPM-124-2MBT	
	1/4" BSPT		14,2	28,7				14,2					PPM-124-4MBT	
 <p>Hose Barb</p>	3,2 mm		12,7	24,6				12,7					PPM-124-2HB	
	4,8 mm		12,7	26,4				12,7						PPM-124-3HB
	6,0 mm		12,7	28,4				12,7						PPM-124-4HB
 <p>Hose Barb 90°</p>	3,2 mm		12,7	30,2				24,1					PPM-124-C2HB	
	6,0 mm		12,7	30,2				27,9						PPM-124-C4HB
 <p>Panel Mount with Hose Barb</p>	1,6 mm		15,7	37,3				15,7					PPM-124-H1HB	
	3,2 mm		15,7	41,1				15,7						PPM-124-H2HB
	4,8 mm		15,7	42,9				15,7						PPM-124-H3HB
	6,0 mm		15,7	44,7				15,7						PPM-124-H4HB

KONVIA



	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	1/8" BSPT		12,7	34,5				12,7					PPM-122-2MBT
	1/4" BSPT		14,2	35,3				14,2					PPM-122-4MBT
 <p>Hose Barb</p>	3,2 mm		14,0	41,9				14,0					PPM-122-2HB
	4,8 mm		14,0	43,7				14,0					PPM-122-3HB
	6,0 mm		14,0	45,7				14,0					PPM-122-4HB
 <p>Hose Barb 90°</p>	3,2 mm		12,7	30,2				24,1					PPM-122-C2HB
	6,0 mm		12,7	30,2				27,9					PPM-122-C4HB
 <p>Panel Mount with Hose Barb</p>	3,2 mm		15,7	43,9				15,7					PPM-122-H2HB
	6,0 mm		15,7	47,5				15,7					PPM-122-H4HB





**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

**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

**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

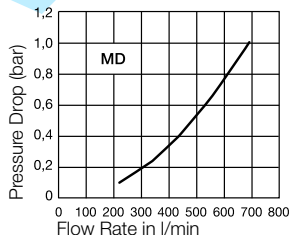
**Seals:** EPDM USP Class VI

**Interchangeability**

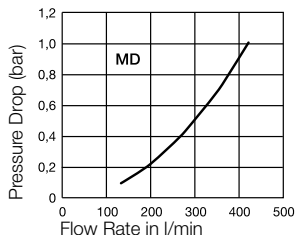
- Rectus 21

**Flow diagrams**

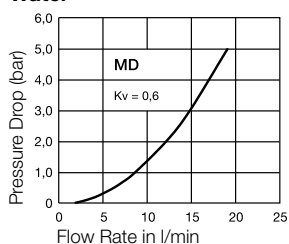
**Air**



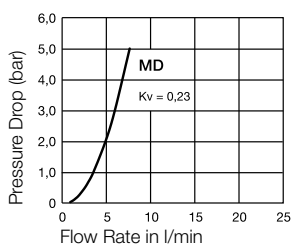
**Air**



**Water**



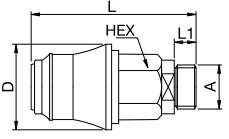
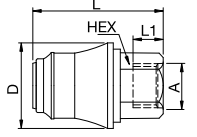
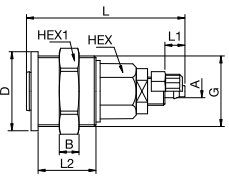
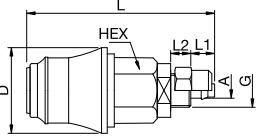
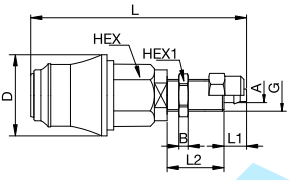
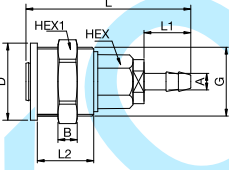
**Water**





# 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





## 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

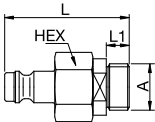
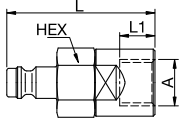
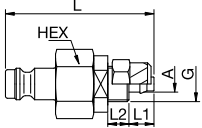
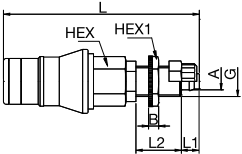
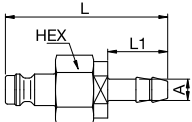
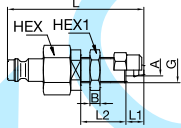


## Plugs – without valve

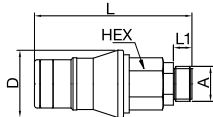
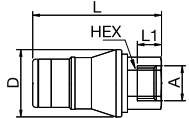
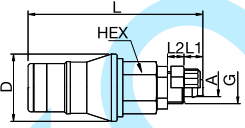
## Series MD

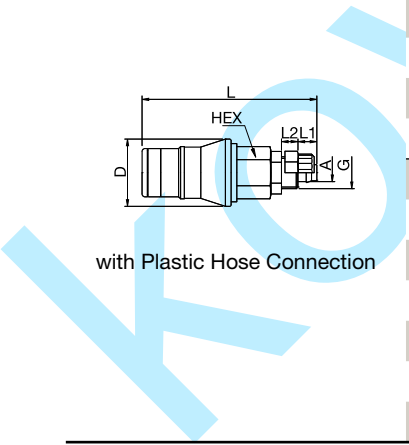
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
<p>Panel Mount with Plastic Hose Connection</p>	4 x 6 mm	14	14	44	7	18			4	M 10 x 1			MD-M54-HM6CSP
	6 x 8 mm	14	14	44	7	18			4	M 12 x 1			MD-M54-HM8CSP
<p>Hose Barb</p>	4 mm			32	17								MD-M54-M4HB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



	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**

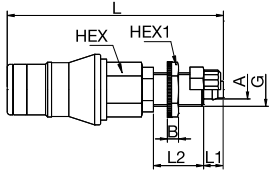
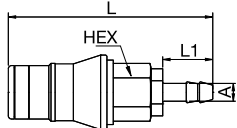
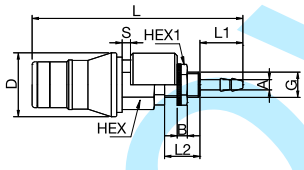
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
G 1/8	17		59,5	7			25,5				green - 0	MD-M51-2MB-K0
G 1/8	17		59,5	7			25,5				black - 2	MD-M51-2MB-K2
G 1/8	17		59,5	7			25,5				brown - 3	MD-M51-2MB-K3
G 1/8	17		59,5	7			25,5				yellow - 5	MD-M51-2MB-K5
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>Male 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>Female Thread</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
 <p>with Plastic Hose Connection</p>												

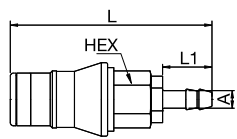




# Couplings – with valve

# 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

KOVAR

KOVARZ S.r.l.




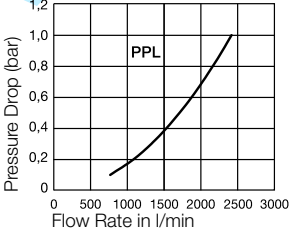
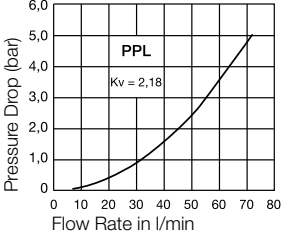
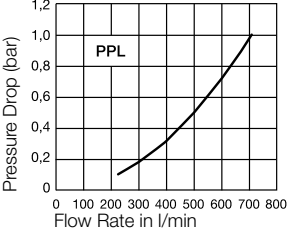
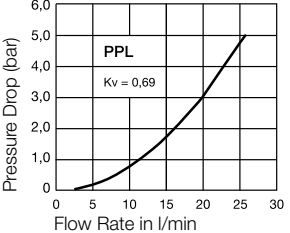
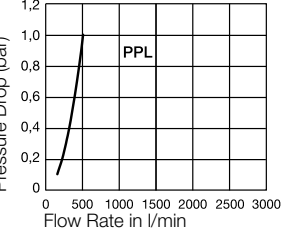
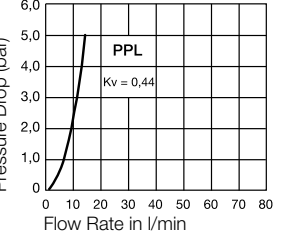


**Technical Description**

Plastic coupling in nominal diameter 6 mm. The system is particularly suited to use with weak alkalis and acids. The coupling stands out for its light weight and intuitive operation. Secure sealing is indicated by an audible click.

**Working Temperature**

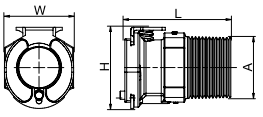
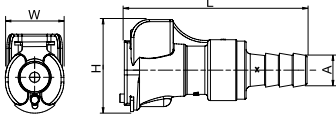
-40°C up to +82°C

 <b>KF</b> Straight-Through	 <b>KA</b> Single Shut-Off	 <b>KB</b> Double Shut-Off
<p><b>Working Pressure**</b> 0-8 bar ** maximum static working pressure with safety factor 4 to 1.</p>	<p>0-8 bar</p>	<p>0-8 bar</p>
<p><b>Material</b> <b>Coupling:</b> Acetal (POM), natural color, USP Class VI <b>Plug:</b> Acetal (POM), natural color, USP Class VI <b>Seals:</b> FDA Buna-N</p>	<p><b>Coupling:</b> Acetal (POM), natural color, USP Class VI <b>Plug:</b> Acetal (POM), natural color, USP Class VI <b>Seals:</b> FDA Buna-N</p>	<p><b>Coupling:</b> Acetal (POM), natural color, USP Class VI <b>Plug:</b> Acetal (POM), natural color, USP Class VI <b>Seals:</b> FDA Buna-N</p>
<p><b>Flow diagrams</b></p> <p><b>Air</b></p>  <p><b>Water</b></p> 	<p><b>Air</b></p>  <p><b>Water</b></p> 	<p><b>Air</b></p>  <p><b>Water</b></p> 



## Couplings – without valve

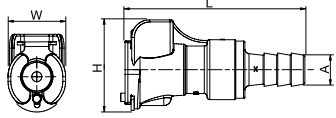
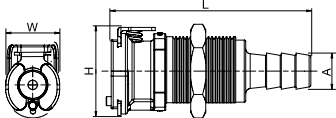
## Series PPL

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	3/8" BSPT		19,1	29,2				23,6					PPL-253-6MBT
 <p>Hose Barb</p>	6 mm		19,1	48,3				23,6					PPL-253-4HB
	8 mm		19,1	48,3				23,6					PPL-253-5HB
	10 mm		19,1	48,3				23,6					PPL-253-6HB

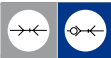


## Couplings – with valve

## Series PPL

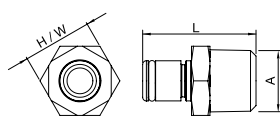
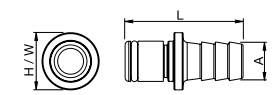
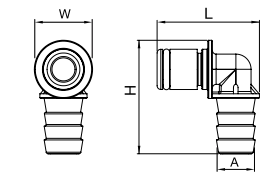
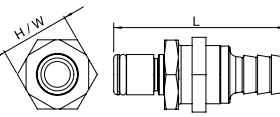
	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Hose Barb</p>	6 mm		19,1	48,3				23,6					PPL-251-4HB
	8 mm		19,1	48,3				23,6					PPL-251-5HB
	10 mm		19,1	48,3				23,6					PPL-251-6HB
 <p>Panel Mount with Hose Barb</p>	8 mm		19,1	48,3				23,6					PPL-251-H5HB
	10 mm		19,1	48,3				23,6					PPL-251-H6HB





Plugs – without valve

Series PPL

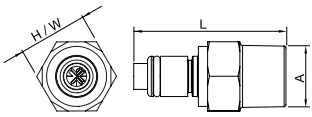
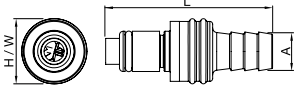
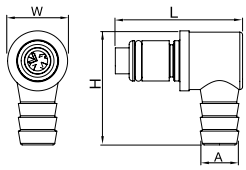
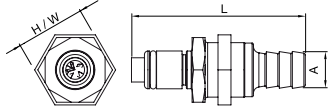
	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	1/4" BSPT		15,7	31,8				15,7					PPL-254-4MBT
	3/8" BSPT		18,8	31,8				18,8					PPL-254-6MBT
 <p>Hose Barb</p>	6 mm		15,7	31,8				15,7					PPL-254-4HB
	8 mm		15,7	31,8				15,7					PPL-254-5HB
	10 mm		15,7	31,8				15,7					PPL-254-6HB
 <p>Hose Barb 90°</p>	6 mm		15,7	27,9				32,5					PPL-254-C4HB
	10 mm		15,7	27,9				32,5					PPL-254-C6HB
 <p>Panel Mount with Hose Barb</p>	6 mm		18,8	47,8				18,8					PPL-254-H4HB
	10 mm		18,8	47,8				18,8					PPL-254-H6HB

KONVIA



# Plugs – with valve

# Series PPL

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 <p>Male Thread</p>	1/4" BSPT		15,7	41,9				15,7					PPL-252-4MBT
	3/8" BSPT		19,1	41,9				19,1					PPL-252-6MBT
 <p>Hose Barb</p>	6 mm		17,8	49,3				17,8					PPL-252-4HB
	8 mm		17,8	49,3				17,8					PPL-252-5HB
	10 mm		17,8	46,5				17,8					PPL-252-6HB
 <p>Hose Barb 90°</p>	6 mm		15,7	27,9				32,5					PPL-252-C4HB
	10 mm		15,7	27,9				32,5					PPL-252-C6HB
 <p>Panel Mount with Hose Barb</p>	6 mm		18,8	50,8				18,8					PPL-252-H4HB
	8 mm		18,8	50,8				18,8					PPL-252-H5HB
	10 mm		18,8	50,8				18,8					PPL-252-H6HB

KONVIA



**Other designs in series 48**

The following other designs can be found from page:

- Thermoplastic P. 240

**Technical Description**

This coupling series is produced exclusively in materials of medical quality and it is specifically suited to use in medical, biotechnological, pharmaceutical and laboratory technology applications. The main components are molded in a clean room from virgin transparent USP Class VI polysulfone (PSU). The seals are made from platinum cured silicone, the locking pins are stainless steel.

Coupling system with single-hand operation. Audible click to indicate a secure connection. Transparent components allow visual control of the flow path. Completely smooth flow path without any dead spaces prevents cross-contamination. Ergonomic sleeve for easy operation with gloves.

**Working Temperature**

-20°C up to +148°C



**Working Pressure\*\***

0-4,5 bar

\*\* maximum static working pressure with safety factor 4 to 1.

**Material**

**Coupling:** PSU, transparent, USP Class VI

**Plug:** PSU, transparent, USP Class VI

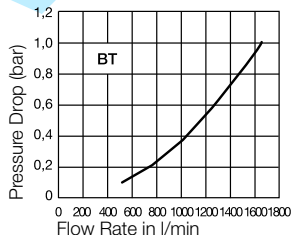
**Seals:** Platinum cured silicone, transparent, USP Class VI

**Interchangeability**

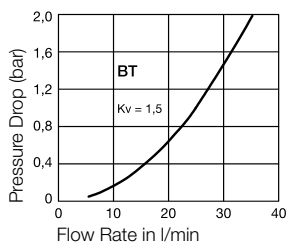
- Rectus 48

**Flow diagrams**

**Air**

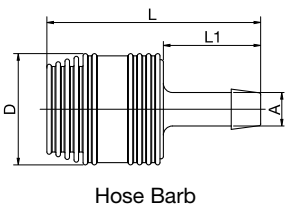


**Water**



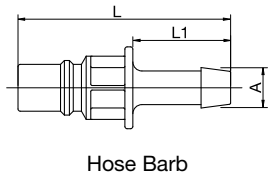
**Couplings – without valve** **Series BT**

Connection A	HEX	HEX1	L	L1	L2	L3	D	B	G	S	Color Coding Ring	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm			
4 mm			47,3	21,5			24,6					BT-M73-4HB
6 mm			47,3	21,5			24,6					BT-M73-6HB
8 mm			47,3	21,5			24,6					BT-M73-8HB



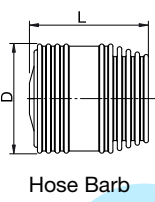
**Plugs – without valve** **Series BT**

Connection A	HEX	HEX1	L	L1	L2	L3	D	B	G	S	Color Coding Ring	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm			
4 mm			46,8	21,5								BT-M74-4HB
6 mm			46,8	21,5								BT-M74-6HB
8 mm			46,8	21,5								BT-M74-8HB



**Dummy coupling** **Series BT**

Connection A	HEX	HEX1	L	L1	L2	L3	D	B	G	S	Color Coding Ring	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm			
			26,8				24,6					BT-M73-PLUG



**Dummy plug** **Series BT**

Connection A	HEX	HEX1	L	L1	L2	L3	D	B	G	S	Color Coding Ring	Part Number
	mm	mm	mm	mm	mm	mm	mm	mm	mm			
			40				18					BT-M74-PLUG

