## Nominal Diameter

**5** = 20 mm²

## Rectus Series

**21**



Mini industrial coupling in plastics POM and PVDF 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. This new type of plastic locking system with handy sleeve considerably expands the applications of this series. Two sleeve forms - tapered and cylindrical, where the tapered sleeve form facilitates handling with gloves. The color coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling.

**Working Temperature**
-20°C up to +80°C (POM)
-20°C up to +120°C (PVDF)
depending on the medium.

Other seal variants are available on request (FKM, EPDM, FFKM).

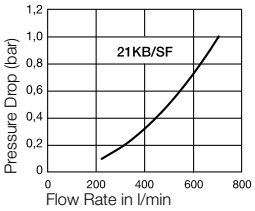
**Other designs in series 21**
The following other designs can be found from page:


➤ Brass / Steel P. 26
➤ Stainless Steel P. 140
➤ Safety P. 210
➤ Coded Systems P. 234

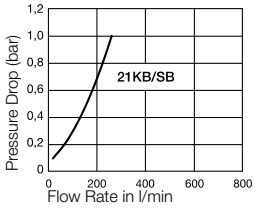

| RectuPOM | RectuChem |
|---|---|
| **Working Pressure**** | |
| 10 bar (POM, at 20°C)<br>** maximum static working pressure with design factor 4 to 1. | 8 bar (PVDF, at 20°C) |
| **Material** | |
| **Coupling:** POM black<br>**Plug:** POM black<br>**Seals:** NBR | **Coupling:** PVDF white<br>**Plug:** PVDF white<br>**Seals:** FKM |
| **Technical Description** | |
| **Connecting Force 0 bar (KA):** 35 N<br>**Connecting Force 6 bar (KA):** 60 N<br><br>**Dead space volume (KB):** 0,6 ml<br>**Connecting Force 0 bar (KB):** 40 N<br>**Connecting Force 6 bar (KB):** 80 N | **Connecting Force 0 bar (KA):** 35 N<br>**Connecting Force 6 bar (KA):** 60 N<br><br>**Dead space volume (KB):** 0,6 ml<br>**Connecting Force 0 bar (KB):** 40 N<br>**Connecting Force 6 bar (KB):** 80 N |
| **Valve types** | |
| single shut-off | single shut-off |
| double shut-off | double shut-off |

**Flow diagrams**

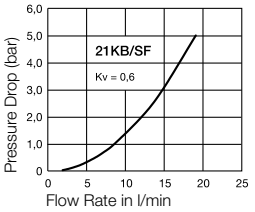
**Air**



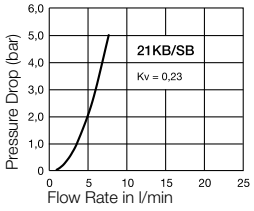

**Air**




**Water**



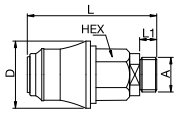
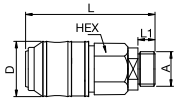
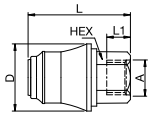
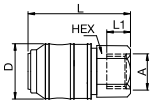
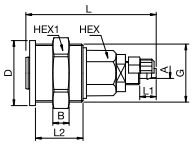
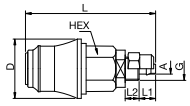
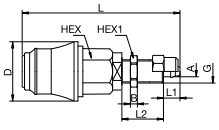

**Water**






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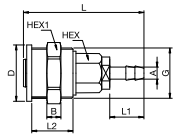
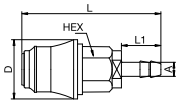
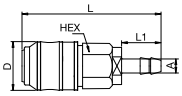
## Couplings – with valve — Series 21KB

| | Connection A | HEX mm | HEX1 mm | L mm | L1 mm | L2 mm | D mm | B mm | G mm | Color Sleeve | Part Number POM | Part Number CHEM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  Male Thread with tapered sleeve | G 1/8 | 17 | | 50 | 7 | | 25,5 | | | Standard | 21KBAW10DPX | 21KBAW10FVX |
| | G 1/4 | 17 | | 50 | 7 | | 25,5 | | | Standard | 21KBAW13DPX | 21KBAW13FVX |
|  Male Thread with cylindrical sleeve | G 1/4 | 17 | | 50 | 7 | | 21 | | | blue | | 21KBAW13FVXGB |
| | G 1/4 | 17 | | 50 | 7 | | 21 | | | green | | 21KBAW13FVXGG |
| | G 1/4 | 17 | | 50 | 7 | | 21 | | | red | | 21KBAW13FVXGR |
| | G 1/4 | 17 | | 50 | 7 | | 21 | | | yellow | | 21KBAW13FVXGY |
|  Female Thread with tapered sleeve | G 1/8 | 17 | | 53 | 8 | | 25,5 | | | Standard | 21KBIW10DPX | |
| | G 1/4 | 17 | | 39 | 9 | | 25,5 | | | Standard | 21KBIW13DPX | 21KBIW13FVX |
|  Female Thread with cylindrical sleeve | G 1/4 | 17 | | 39 | 9 | | 21 | | | Standard | 21KBIW13DPXG | |
| | G 1/4 | 17 | | 39 | 9 | | 21 | | | blue | 21KBIW13DPXGB | 21KBIW13FVXGB |
| | G 1/4 | 17 | | 39 | 9 | | 21 | | | green | 21KBIW13DPXGG | 21KBIW13FVXGG |
| | G 1/4 | 17 | | 39 | 9 | | 21 | | | red | 21KBIW13DPXGR | 21KBIW13FVXGR |
| | G 1/4 | 17 | | 39 | 9 | | 21 | | | yellow | 21KBIW13DPXGY | 21KBIW13FVXGY |
|  Panel Mount for Plastic Hose Connection for Front Panel Installation | 4 x 6 mm | 17 | 27 | 56 | 7 | 20,5 | 28 | 7 | M 25 x 1 | Standard | 21KBKE06DPX | |
| | 6 x 8 mm | 17 | 27 | 56 | 7 | 20,5 | 28 | 7 | M 25 x 1 | Standard | 21KBKE08DPX | |
|  with Plastic Hose Connection with tapered sleeve | 4 x 6 mm | 17 | | 56 | 6 | 7 | 25,5 | | M 10 x 1 | Standard | 21KBKO06DPX | 21KBKO06FVX |
| | 6 x 8 mm | 17 | | 56 | 6 | 7 | 25,5 | | M 12 x 1 | Standard | 21KBKO08DPX | 21KBKO08FVX |
|  Panel Mount with Plastic Hose Connection with tapered sleeve | 4 x 6 mm | 17 | 14 | 68 | 7 | 18 | 25,5 | 4 | M 10 x 1 | Standard | 21KBKS06DPX | |
| | 6 x 8 mm | 17 | 17 | 68 | 7 | 18 | 25,5 | 4 | M 12 x 1 | Standard | 21KBKS08DPX | |

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

## Couplings – with valve

**Series 21KB**

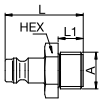
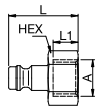
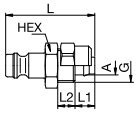
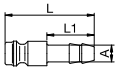
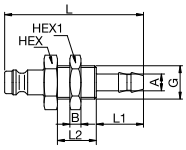
| | Connection A | HEX mm | HEX1 mm | L mm | L1 mm | L2 mm | D mm | B mm | G mm | Color Sleeve | Part Number POM | Part Number CHEM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  Panel Mount for Hose Barb for Front Panel Installation | 6 mm | 17 | 27 | 60 | 17 | 20,5 | 28 | 7 | M 25 x 1 | Standard | 21KBTE06DPX | 21KBTE06FVX |
|  Hose Barb with tapered sleeve | 4 mm | 17 | | 60 | 17 | | 25,5 | | | Standard | 21KBTF04DPX | 21KBTF04FVX |
| | 6 mm | 17 | | 60 | 17 | | 25,5 | | | Standard | 21KBTF06DPX | 21KBTF06FVX |
|  Hose Barb with cylindrical sleeve | 6 mm | 17 | | 60 | 17 | | 21 | | | Standard | 21KBTF06DPXG | |
| | 6 mm | 17 | | 60 | 17 | | 21 | | | blue | 21KBTF06DPXGB | |
| | 6 mm | 17 | | 60 | 17 | | 21 | | | green | 21KBTF06DPXGG | |
| | 6 mm | 17 | | 60 | 17 | | 21 | | | red | 21KBTF06DPXGR | |
| | 6 mm | 17 | | 60 | 17 | | 21 | | | yellow | 21KBTF06DPXGY | |



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## Plugs – without valve

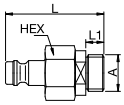
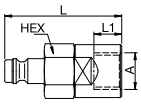
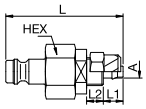
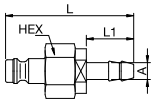
**Series 21SF**

| | Connection A | HEX mm | HEX1 mm | L mm | L1 mm | L2 mm | D mm | B mm | G mm | Color Sleeve | Part Number POM | Part Number CHEM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  Male Thread | G 1/8 | 14 | | 25 | 7 | | | | | Standard | | 21SFAW10FXX |
| | G 1/4 | 17 | | 28 | 9 | | | | | Standard | | 21SFAW13FXX |
|  Female Thread | G 1/8 | 14 | | 24 | 8 | | | | | Standard | | 21SFIW10FXX |
| | G 1/4 | 17 | | 25 | 9 | | | | | Standard | 21SFIW13DXX | 21SFIW13FXX |
| | G 1/4 | 17 | | 25 | 9 | | | | | blue | | 21SFIW13FXXB |
| | G 1/4 | 17 | | 25 | 9 | | | | | green | | 21SFIW13FXXG |
| | G 1/4 | 17 | | 25 | 9 | | | | | red | | 21SFIW13FXXR |
| | G 1/4 | 17 | | 25 | 9 | | | | | yellow | | 21SFIW13FXXY |
|  with Plastic Hose Connection | 4 x 6 mm | 14 | | 32 | 7 | 6 | | | M 10 x 1 | Standard | 21SFKO06DXX | 21SFKO06FXX |
| | 6 x 8 mm | 14 | | 32 | 7 | 6 | | | M 12 x 1 | Standard | 21SFKO08DXX | |
|  Hose Barb | 4 mm | | | 32 | 17 | | | | | Standard | 21SFTF04DXX | 21SFTF04FXX |
| | 6 mm | | | 32 | 17 | | | | | Standard | 21SFTF06DXX | 21SFTF06FXX |
| | 6 mm | | | 32 | 17 | | | | | blue | 21SFTF06DPXB | 21SFTF06FVXB |
| | 6 mm | | | 32 | 17 | | | | | green | 21SFTF06DPXG | 21SFTF06FVXG |
| | 6 mm | | | 32 | 17 | | | | | red | 21SFTF06DPXR | 21SFTF06FVXR |
| | 6 mm | | | 32 | 17 | | | | | yellow | 21SFTF06DPXY | 21SFTF06FVXY |
|  Panel Mount with Hose Barb | 4 mm | 14 | 14 | 50 | 17 | 14 | | 4 | M 10 x 1 | Standard | 21SFTS04DXX | |
| | 4 mm | 14 | 14 | 50 | 17 | 14 | | 4 | M 10 x 1 | blue | | 21SFTS04FVXB |
| | 4 mm | 14 | 14 | 50 | 17 | 14 | | 4 | M 10 x 1 | green | | 21SFTS04FVXG |
| | 4 mm | 14 | 14 | 50 | 17 | 14 | | 4 | M 10 x 1 | red | | 21SFTS04FVXR |
| | 4 mm | 14 | 14 | 50 | 17 | 14 | | 4 | M 10 x 1 | yellow | | 21SFTS04FVXY |
| | 6 mm | 14 | 17 | 50 | 17 | 14 | | 4 | M 12 x 1 | Standard | 21SFTS06DXX | |

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

## Plugs – with valve

**Series 21KB**

| | Connection A | HEX mm | HEX1 mm | L mm | L1 mm | L2 mm | D mm | B mm | G mm | Color Sleeve | Part Number POM | Part Number CHEM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  Male Thread | G 1/8 | 17 | | 36 | 7 | | | | | Standard | 21SBAW10DPX | |
| | G 1/8 | 17 | | 36 | 7 | | | | | blue | 21SBAW10DPXB | |
| | G 1/8 | 17 | | 36 | 7 | | | | | green | 21SBAW10DPXG | |
| | G 1/8 | 17 | | 36 | 7 | | | | | red | 21SBAW10DPXR | |
| | G 1/8 | 17 | | 36 | 7 | | | | | yellow | 21SBAW10DPXY | |
| | G 1/4 | 17 | | 38 | 7 | | | | | Standard | 21SBAW13DPX | 21SBAW13FVX |
| | G 1/4 | 17 | | 38 | 7 | | | | | blue | | 21SBAW13FVXB |
| | G 1/4 | 17 | | 38 | 7 | | | | | green | | 21SBAW13FVXG |
| | G 1/4 | 17 | | 38 | 7 | | | | | red | | 21SBAW13FVXR |
| | G 1/4 | 17 | | 38 | 7 | | | | | yellow | | 21SBAW13FVXY |
|  Female Thread | G 1/4 | 17 | | 42 | 10 | | | | | Standard | 21SBIW13DPX | 21SBIW13FVX |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
|  with Plastic Hose Connection | 4 x 6 mm | 17 | | 42 | 7 | 6 | | | | Standard | 21SBKO06DPX | 21SBKO06FVX |
| | 6 x 8 mm | 17 | | 42 | 7 | 6 | | | | Standard | 21SBKO08DPX | 21SBKO08FVX |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
|  Hose Barb | 4 mm | 17 | | 46 | 17 | | | | | Standard | 21SBTF04DPX | |
| | 6 mm | 17 | | 46 | 17 | | | | | Standard | | 21SBTF06FVX |
| | 6 mm | 17 | | 46 | 17 | | | | | blue | 21SBTF06DPXB | 21SBTF06FVXB |
| | 6 mm | 17 | | 46 | 17 | | | | | green | 21SBTF06DPXG | 21SBTF06FVXG |
| | 6 mm | 17 | | 46 | 17 | | | | | red | 21SBTF06DPXR | 21SBTF06FVXR |
| | 6 mm | 17 | | 46 | 17 | | | | | yellow | 21SBTF06DPXY | 21SBTF06FVXY |



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