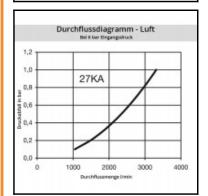
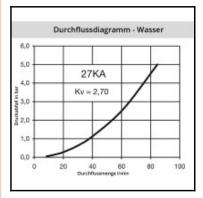


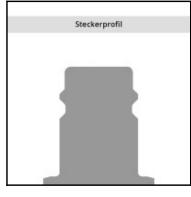
# Datasheet of 27KAAK21MPN Quick coupling with male thread DUST



# RECTUS







### Description

Quick coupling single shut-off, male thread R 1/2, nominal diameter 10, <35 bar, brass nickel plated, seal NBR

1/2 universal industrial coupling with standard European profile for use with large pneumatic consumers. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The series stands out for its robust design (steel sleeve), extremely high flow and long service life even with the harshest use. The collar design minimises damage tothe valve body.

### Details

| Series long: 27KA Bore in mm: 10 Bore area in mm²: 80  Advantages: One-hand operation. Low pressure Drop. The collar design minimises damage to the valve body. Ultrafivalve.  Compatibility: RECTUS 41 RECTUS 1700 RECTUS 1727 TEMA 35 bar maximum static working pressure with safety factor 4 to 1.  20°C up to +100°C (NBR) -40°C up to +120/150°C (PFDM) -15°C up to +200°C (FKM) 0°C up to +316 (FFKM) depending on the medium.  Shut-Off: Quick coupling Single Shut-Off Quick coupling Single Shut-Off Male thread 1/2°  Connection description: Male thread 1/2° Male thread Material description: Brass nickel plated Material description: Brass nickel plated Material description: Brass nickel plated Material valve body: Brass nickel plated Material valve: Brass Nickel plated Material spring snap ring: stainless steel AISI 301 Material balls/pins: Stainless steel AISI 301 Material balls/pins: Material seal: Perbunan® Material valve: Brass No Stainless steel AISI 301 Material seal: Perbunan® No Safely locking system: No Single-hand operation: Yes Two-hand operation: Yes Two-hand operation: No Mo Molecular Seal of the present of the pre | Series:                                   | 27   |
|--|---|--|
| Bore in mm: Bore area in mm?: Done-hand operation. Low pressure Drop. The collar design minimises damage to the valve body. Ultrafivalve.  Compatibility: RECTUS 41 RECTUS 1700 RECTUS 1727 TEMA Borking pressure: Bore area in maximum static working pressure with safety factor 4 to 1.  20°C up to +10°C (NBR) -40°C up to +120/150°C (EPDM) -15°C up to +200°C (FKM) 0°C up to +316 (FFKM) depending on the medium.  Shut-Off. Doubling Single Shut-Off Connection: Male thread 1/2° Connection description: Male thread 1/2° Male thread of Whitworth form DIN 2999 1/2 (Connection description: Male thread brass cuz/n39Pb3 2.0401 (except sleeve)  Material: Brass nickel plated Material description: Nitrite-butadiene rubber Surface: Initrite-butadiene rubber Material valve body: Material valve body: Material sleeve: Material sleeve: Steel hardened and nickel plated Material sleeve: Steel hardened and nickel plated Material spring snap ring: Stainless steel AISI 301 Material seal: Perbunan® Weight in kg: O.1507  Self-venting coupling: No Safety locking system: No Single-hand operation: Yes Prib lock: No Ultra-FLO-valve: No Water-resistant: No Flat-sealing: No Suitable breath / respiratory protection: No Hydraulics: No  |   |  |
| Advantages:  One-hand operation. Low pressure Drop. The collar design minimises damage to the valve body. UltraF valve.  Compatibility:  RECTUS 41 RECTUS 1700 RECTUS 1727 TEMA 35 bar maximum static working pressure with safety factor 4 to 1.  -20°C up to +100°C (NBR) -40°C up to +120/150°C (PPDM) -15°C up to +200°C (FKM) 0°C up to +316 (FFKM) depending on the medium.  Shut-Off:  Quick coupling Single Shut-Off Connection description:  Male thread 1/2°  Connection description:  Male thread 1/2°  Connection description:  Male thread 0 (Whitworth form DIN 2999 1/2000)  Material:  Brass nickel plated  Material description:  Surface:  nickel plated  Material valve body:  Material valve body:  Material seleve:  Material seleve:  Material spring snap ring:  Material spring snap ring:  Material seles:  Perbunan®  Material seles:  Perbunan®  Weight in kg:  O,1507  Seff-venting coupling:  No  Single-hand operation:  No  Pressure eliminator:  No  No  Pressure eliminator:  No  Pressure eliminator:  No  Pressure eliminator:  No  |   | 10   |
| Advantages:  One-hand operation. Low pressure Drop. The collar design minimises damage to the valve body. UltraF valve.  Compatibility:  RECTUS 41 RECTUS 1700 RECTUS 1727 TEMA 35 bar maximum static working pressure with safety factor 4 to 1.  -20°C up to +100°C (NBR) -40°C up to +120/150°C (PPDM) -15°C up to +200°C (FKM) 0°C up to +316 (FFKM) depending on the medium.  Shut-Off:  Quick coupling Single Shut-Off Connection description:  Male thread 1/2°  Connection description:  Male thread 1/2°  Connection description:  Male thread 0 (Whitworth form DIN 2999 1/2000)  Material:  Brass nickel plated  Material description:  Surface:  nickel plated  Material valve body:  Material valve body:  Material seleve:  Material seleve:  Material spring snap ring:  Material spring snap ring:  Material seles:  Perbunan®  Material seles:  Perbunan®  Weight in kg:  O,1507  Seff-venting coupling:  No  Single-hand operation:  No  Pressure eliminator:  No  No  Pressure eliminator:  No  Pressure eliminator:  No  Pressure eliminator:  No  |   | 80   |
| Working pressure:  35 bar maximum static working pressure with safety factor 4 to 1.  -20°C up to +100°C (NBR) -40°C up to +120/150°C (PFDM) -15°C up to +200°C (FKM)) 0°C up to +316 (FFKM) depending on the medium.  Shut-Off:  Quick coupling Single Shut-Off Connection:  Male thread 1/2°  Connection description:  Male thread of Whitworth form DIN 2999 1/2 (Connection type:  Male thread  Material:  Brass nickel plated  Material description:  Surface:  Nitrite-butadiene rubber  Surface:  Nitrite-butadiene rubber  Material valve body:  Material sleeve:  Steel hardened and nickel plated  Material valve:  Material sleeve:  Steel hardened and nickel plated  Material slery:  Material spring snap ring:  stainless steel AISI 301  Material balls/pins:  Material balls/pins:  Material balls/pins:  Material seal:  Perbunan®  Weight in kg:  0,1507  Self-venting coupling:  No  Safety locking system:  No  Single-hand operation:  No  Ball locking:  Yes  Two-hand operation:  No  Ultra-FLO-valve:  No  Vacuum suitable:  No  Pressure eliminator:  No  Pressure eliminator:  No  Pressure eliminator:  No  Pressure eliminator:  No  Hydraulics:  No  |   | One-hand operation. Low pressure Drop. The collar design minimises damage to the valve body. UltraFlo valve.                     |
| Working pressure:    Cache   C | Compatibility:                            | RECTUS 41 RECTUS 1700 RECTUS 1727 TEMA 1700  |
| Working temperature: (EPDM) -15°C up to +200°C (FKM) 0°C up to +316 (FFKM) depending on the medium.  Shut-Off: Quick coupling Single Shut-Off Connection: Male thread 1/2" Connection description: Male thread of Whitworth form DIN 2999 1/ Connection type: Male thread Material: Brass nickel plated Material description: Brass nickel plated Material description: Nitrite-butadiene rubber Surface: nickel plated Material connection: Brass nickel plated Material valve body: Brass nickel plated Material sleeve: Steel hardened and nickel plated Material sleeve: Steel hardened and nickel plated Material spring snap ring: stainless steel AISI 301 Material balls/pins: Stainless steel AISI 420 Material seal: Perbunan® Weight in kg: 0,1507 Self-venting coupling: No Safety locking system: No Single-hand operation: Yes Pin lock: No Ultra-FLO-valve: No Vacuum suitable: No Ultra-FLO-valve: No Vacuum suitable: No Suitable breath / respiratory protection: No Pressure eliminator: No Pressure eliminator: No   | Working pressure:                         | 35 bar maximum static working pressure with safety factor 4 to 1.  |
| Connection:  Male thread 1/2"  Connection description:  Male tapered thread of Whitworth form DIN 2999 1/ Connection type:  Material:  Brass nickel plated  Material description:  Seal description:  Surface:  Material connection:  Material connection:  Material valve body:  Material valve body:  Material seleve:  Material spring snap ring:  Material spring snap ring:  Material seles steel AISI 301  Material seles belians:  Mo  Safety locking system:  No  Single-hand operation:  Yes  Two-hand operation:  No  Mo  Vacuum suitable:  No  Water-resistant:  No  Flat-sealing:  No  Suitable breath / respiratory protection:  No  Pressure eliminator:  No  Hydraulics:  No  | Working temperature:                      | -20°C up to +100°C (NBR) -40°C up to +120/150°C (EPDM) -15°C up to +200°C (FKM) 0°C up to +316°C (FFKM) depending on the medium. |
| Connection description:  Connection type:  Male thread  Material:  Brass nickel plated  Material description:  Seal description:  Material description:  Surface:  Material connection:  Material valve body:  Material sleeve:  Material spring snap ring:  Material spring snap ring:  Material seal:  Weight in kg:  Self-venting coupling:  Safety locking system:  Single-hand operation:  Mo  Ball locking:  Yes  Pin lock:  Water-esistant:  No  Vacuum suitable:  No  Pressure eliminator:  No  Material con Whitworth form DIN 2999 1/  Male thread  Materiad  Male thread  Brass nickel plated  Parss nickel plated  Brass nickel plated  Material seal spring sheet  Stainless steel AISI 301  Stainless steel AISI 301  Stainless steel AISI 301  No  No  Signle-hand operation:  No  No  Signle-hand operation:  No  No  No  No  No  No  No  No  No  N  | Shut-Off:                                 | Quick coupling Single Shut-Off   |
| Connection type:  Material:  Material:  Brass nickel plated  Material description:  Seal description:  Nitrite-butadiene rubber  Surface:  Material connection:  Material valve body:  Material spring snap ring:  Material spring snap ring:  Material spring snap ring:  Material seal:  Perbunan®  Weight in kg:  Self-venting coupling:  No  Safety locking system:  No  Ball locking:  Yes  Pin lock:  Water-esistant:  No  Pressure eliminator:  No  Ratirial cescription:  Material seal:  Perbunan®  Material seal:  Perbunan®  No  Single-hand operation:  No  No  No  No  No  No  No  No  No  N  | Connection:                               | Male thread 1/2"   |
| Material:  Material description:  Seal description:  Surface:  Material connection:  Material valve body:  Material sleeve:  Material sleeve:  Material spring snap ring:  Material seal:  Meterial seal:  Meterial seal:  Meterial coupling:  Moesafety locking system:  Safety locking:  Moesafety locking:  Perbunand operation:  Moesafety locking:  Perbunand:  No  Safety locking:  Perbunand:  No  Safety locking:  Perbunand:  No  Safety locking:  Perbunand:  No  Safety locking:  No  Safety locking:  Persoure eliminator:  No  No  No  No  No  No  No  No  No  N  | Connection description:                   | Male tapered thread of Whitworth form DIN 2999 1/2"  |
| Material description: Seal description: Nitrite-butadiene rubber Naterial plated Naterial valve body: Naterial sleeve: Naterial seleve: Naterial spring snap ring: Naterial salisypins: Naterial seal: Perbunan® No No Safety locking system: No Single-hand operation: Yes Two-hand operation: Yes Two-hand operation: No Single-hand operation: No Ultra-FLO-valve: No Vacuum suitable: No Vacuum suitable: No Vater-resistant: No Pressure eliminator: No Pressure eliminator: No Hydraulics:  | Connection type:                          | Male thread  |
| Seal description:  Surface:  Material connection:  Material valve body:  Material sleeve:  Material valve:  Material spring snap ring:  Material seal:  Weight in kg:  Safety locking system:  No Single-hand operation:  Two-hand operation:  Ball locking:  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  No Suitable breath / respiratory protection:  Pressure eliminator:  No Pressure eliminator:  No Material spring snap ring:  Stainless steel AISI 301  Stainless steel AISI 420  Perbunan®  No Stainless steel AISI 420  No Stainless steel AISI 420  No No Stainless steel AISI 420  No No Suinless steel AISI 420  No No Stainless steel AISI 420  No No No Stainless steel AISI 420  No   | Material:                                 | Brass nickel plated  |
| Surface:  Material connection:  Material valve body:  Material sleeve:  Material sleeve:  Material spring snap ring:  Material spring snap ring:  Material seal:  Meight in kg:  Self-venting coupling:  Single-hand operation:  Two-hand operation:  Weight locking:  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  Waterial seal:  No  Surface:  No  No  Surface:  Brass nickel plated  Brass ni | Material description:                     | Brass CuZn39Pb3 2.0401 (except sleeve)   |
| Material connection:  Material valve body:  Material sleeve:  Steel hardened and nickel plated  Material valve:  Material spring snap ring:  Material balls/pins:  Material seal:  Meight in kg:  Safety locking system:  No Single-hand operation:  Two-hand operation:  No Ball locking:  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  No Waterial seal:  No Suitable breath / respiratory protection:  No Pressure eliminator:  No Pressure eliminator:  No Hydraulics:  No Material salickel plated  Brass nickel plated  Bras nickel plated  Brass  Steel AISI 301  No  No  No  No  No  No  No  No  No  N   | Seal description:                         | Nitrite-butadiene rubber   |
| Material valve body:  Material sleeve:  Steel hardened and nickel plated  Material valve:  Brass  Material spring snap ring:  Stainless steel AISI 301  Material balls/pins:  Stainless steel AISI 420  Material seal:  Perbunan®  Weight in kg:  Safety locking system:  No  Single-hand operation:  Two-hand operation:  Yes  Two-hand operation:  No  Ball locking:  Pin lock:  No  Ultra-FLO-valve:  Vacuum suitable:  No  Water-resistant:  No  Suitable breath / respiratory protection:  No  Pressure eliminator:  No  Hydraulics:  No  No  Stainless steel AISI 301  Stainless steel AISI 420  Perbunan®  No, 1507  Stainless steel AISI 420  No  No  No  No  No  Safety locking system:  No  No  No  No  No  No  No  No  No  N  | Surface:                                  | nickel plated  |
| Material sleeve:  Material valve:  Material spring snap ring:  Material balls/pins:  Material balls/pins:  Stainless steel AISI 301  Material seal:  Perbunan®  Weight in kg:  Safety locking system:  No Single-hand operation:  Two-hand operation:  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  No Water-resistant:  Flat-sealing:  Suitable breath / respiratory protection:  No Hydraulics:  No Material seal AISI 301  Stainless steel AISI 301  Stainless steel AISI 420  Material seal:  Perbunan®  No Stainless steel AISI 420  No  No Stainless steel AISI 420  No  No Self-venting coupling:  No No No Safety locking system:  No  | Material connection:                      | Brass nickel plated  |
| Material valve:  Material spring snap ring:  Material balls/pins:  Material balls/pins:  Stainless steel AISI 301  Material balls/pins:  Stainless steel AISI 420  Material seal:  Perbunan®  Weight in kg:  0,1507  Self-venting coupling:  No  Safety locking system:  No  Single-hand operation:  Two-hand operation:  No  Ball locking:  Yes  Pin lock:  Ultra-FLO-valve:  No  Water-resistant:  No  Water-resistant:  No  Suitable breath / respiratory protection:  No  Pressure eliminator:  No  Hydraulics:  No  | Material valve body:                      | Brass nickel plated  |
| Material spring snap ring:  Material balls/pins:  Stainless steel AISI 301  Material seal:  Perbunan®  Weight in kg:  0,1507  Self-venting coupling:  No  Safety locking system:  No  Single-hand operation:  Two-hand operation:  No  Ball locking:  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  No  Water-resistant:  No  Flat-sealing:  Suitable breath / respiratory protection:  No  Hydraulics:  No  No  Stainless steel AISI 301  Stainless steel AISI 301  Stainless steel AISI 301  No  No  No  No  No  No  No  No  No  N  | Material sleeve:                          | Steel hardened and nickel plated   |
| Material balls/pins:  Material seal:  Perbunan®  Weight in kg:  O,1507  Self-venting coupling:  No  Safety locking system:  No  Single-hand operation:  Two-hand operation:  Pes  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  Water-resistant:  Flat-sealing:  Stainless steel AISI 420  Perbunan®  No  No  No  Safety locking system:  No  No  No  No  Wo  No  Ultra-FLO-valve:  No  Water-resistant:  No  Suitable breath / respiratory protection:  No  Pressure eliminator:  No  Hydraulics:  No  | Material valve:                           | Brass  |
| Material seal:         Perbunan®           Weight in kg:         0,1507           Self-venting coupling:         No           Safety locking system:         No           Single-hand operation:         Yes           Two-hand operation:         No           Ball locking:         Yes           Pin lock:         No           Ultra-FLO-valve:         No           Vacuum suitable:         No           Water-resistant:         No           Flat-sealing:         No           Suitable breath / respiratory protection:         No           Pressure eliminator:         No           Hydraulics:         No  | Material spring snap ring:                | stainless steel AISI 301   |
| Weight in kg:  Self-venting coupling:  No Safety locking system:  No Single-hand operation:  Two-hand operation:  Ball locking:  Pin lock:  Ultra-FLO-valve:  Vacuum suitable:  No Water-resistant:  Flat-sealing:  Suitable breath / respiratory protection:  No Hydraulics:  No O,1507  No   | Material balls/pins:                      | Stainless steel AISI 420   |
| Self-venting coupling:         No           Safety locking system:         No           Single-hand operation:         Yes           Two-hand operation:         No           Ball locking:         Yes           Pin lock:         No           Ultra-FLO-valve:         No           Vacuum suitable:         No           Water-resistant:         No           Flat-sealing:         No           Suitable breath / respiratory protection:         No           Pressure eliminator:         No           Hydraulics:         No  | Material seal:                            | Perbunan®  |
| Safety locking system:         No           Single-hand operation:         Yes           Two-hand operation:         No           Ball locking:         Yes           Pin lock:         No           Ultra-FLO-valve:         No           Vacuum suitable:         No           Water-resistant:         No           Flat-sealing:         No           Suitable breath / respiratory protection:         No           Pressure eliminator:         No           Hydraulics:         No  | Weight in kg:                             | 0,1507   |
| Single-hand operation:  Two-hand operation:  Ball locking:  Pin lock:  No  Ultra-FLO-valve:  Vacuum suitable:  No  Water-resistant:  No  Flat-sealing:  Suitable breath / respiratory protection:  Pressure eliminator:  Hydraulics:  No  Yes  No  No  No  No  No  No  No  Hydraulics:  No  No  No  No  No  No  No  No  No  N  | Self-venting coupling:                    | No   |
| Two-hand operation:         No           Ball locking:         Yes           Pin lock:         No           Ultra-FLO-valve:         No           Vacuum suitable:         No           Water-resistant:         No           Flat-sealing:         No           Suitable breath / respiratory protection:         No           Pressure eliminator:         No           Hydraulics:         No   | Safety locking system:                    | No   |
| Ball locking:         Yes           Pin lock:         No           Ultra-FLO-valve:         No           Vacuum suitable:         No           Water-resistant:         No           Flat-sealing:         No           Suitable breath / respiratory protection:         No           Pressure eliminator:         No           Hydraulics:         No  | Single-hand operation:                    | Yes  |
| Pin lock:         No           Ultra-FLO-valve:         No           Vacuum suitable:         No           Water-resistant:         No           Flat-sealing:         No           Suitable breath / respiratory protection:         No           Pressure eliminator:         No           Hydraulics:         No  | Two-hand operation:                       | No   |
| Ultra-FLO-valve:  Vacuum suitable:  No  Water-resistant:  No  Flat-sealing:  No  Suitable breath / respiratory protection:  Pressure eliminator:  No  Hydraulics:  No  | Ball locking:                             | Yes  |
| Vacuum suitable:  Water-resistant:  No Flat-sealing:  No Suitable breath / respiratory protection:  No Pressure eliminator:  No Hydraulics:  No  | Pin lock:                                 | No   |
| Water-resistant:  Flat-sealing:  No Suitable breath / respiratory protection:  No Pressure eliminator:  No Hydraulics:  No   | Ultra-FLO-valve:                          | No   |
| Flat-sealing:  Suitable breath / respiratory protection:  No  Pressure eliminator:  No  Hydraulics:  No  | Vacuum suitable:                          | No   |
| Suitable breath / respiratory protection:  Pressure eliminator:  No  Hydraulics:  No   | Water-resistant:                          | No   |
| Pressure eliminator: No Hydraulics: No   | Flat-sealing:                             | No   |
| Pressure eliminator: No Hydraulics: No   | Suitable breath / respiratory protection: | No   |
| 711111   |   | No   |
| •  | Hydraulics:                               | No   |
| p nounauo.   | Pneumatics:                               | Yes  |
| Standard product: Yes  | Standard product:                         | Yes  |
| Mould coupling: No   | ·   | No   |

## Dimensions

| Connection A: | R 1/2 |
|---------------|-------|
| D mm:         | 27    |
| L mm:         | 65    |
| L1 mm:        | 17    |
| SW mm:        | 24    |