



CATÁLOGO DE  
**RODAS E RODÍZIOS**  
2017



**ROD-CAR<sup>®</sup>**  
Desde 1966

Fundada em 1º de junho de 1966, a Rod-Car é hoje uma das principais empresas de movimentação e armazenagem de materiais no País.

Com origem na fabricação de rodas e rodízios e também os então chamados “carros industriais” na metade da década de 60, a empresa começou suas atividades em um modesto armazém no Bairro do Brás em São Paulo.

A Rod-Car não parou por aí, buscou novos desafios e mercados. A empresa começou a produzir equipamentos para a hotelaria internacional que chegara ao país no início da década de 70, como a rede Hilton, por exemplo. Sempre atenta a novas oportunidades de mercado surgiu na década de 70 uma grande oportunidade na fabricação de carrinhos para os supermercados. Com a expertise na fabricação de rodízios e diversos tipos de carrinhos, logo, esta nova divisão conquistou a liderança no setor supermercadista.

O país já pensava em modernizar suas indústrias e nos anos 80, a necessidade de estocagem de materiais e melhoria no fluxo de produção pedia um novo produto, os containers aramados desmontáveis e empilháveis. A empresa já dominava a manufatura de produtos em arame e uma nova divisão surgira, a de armazenagem e logística. Para completar suas linhas, a Rod-Car foi grande importadora de produtos das marcas Rubbermaid e Metro para o Brasil e Mercosul.

Sua mais nova divisão é a de prateleiras aramadas, um moderno sistema de quatro postes, onde se pode compor quantas prateleiras necessitar.

Localizada hoje no Parque Industrial de Cumbica em Guarulhos / SP. e com uma área de 30.000m<sup>2</sup>, a empresa conta com um maquinário de ponta para atender todas as suas necessidades de produção. Uma empresa com seis divisões distintas de produtos e com diversos mercados de atuação.



## **Linha Leve Reforçada**

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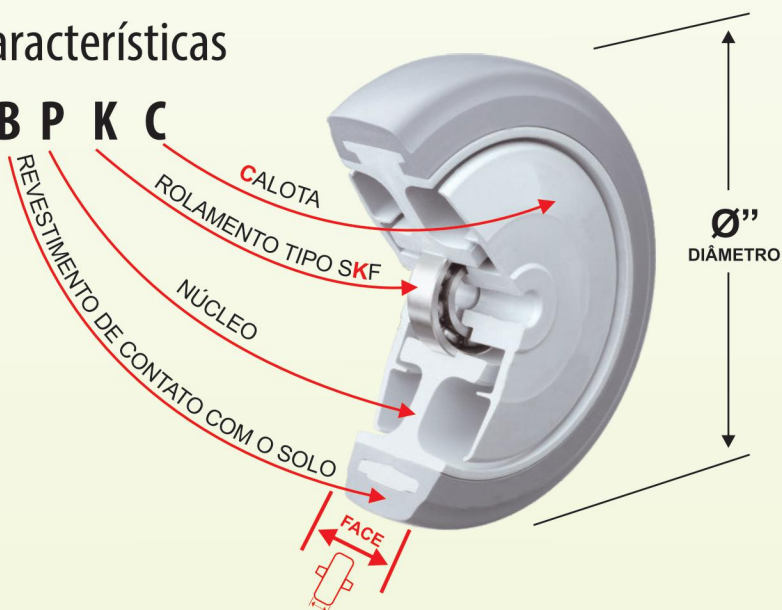
# NOMENCLATURA SUA COMPOSIÇÃO E ABREVIATURAS

MEDIDAS  $\varnothing''$  x  + Características

RODA = R - 6" x 1" + 1/2" - B P K C  
Série 14

EX.: R - 6 14 - B P K C  
Ø Série 14

B - Borracha ou Resina Termoplástica  
 P - Polipropileno  
 K - Rolamento tipo SKF  
 C - Calota Complemento



## PREFIXO DO RODÍZIO + CARACTERÍSTICAS DA RODA

**G L R 614 BPKC**

| TIPO            |
|-----------------|
| <b>G</b>        |
| Giratório       |
| <b>GD</b>       |
| Giratório Duplo |
| <b>F</b>        |
| Fixo            |
| <b>FD</b>       |
| Fixo Duplo      |

| LINHA  |
|--|
| <b>LR</b> - Leve Reforçada (Institucional ou Industrial) |
| <b>RR</b> - Rosca  |
| <b>HR</b> - Expansivo (Hospitalar)                       |
| <b>IR</b> - Intermediária Reforçada                      |
| <b>MR</b> - Média Reforçada                              |
| <b>MPA</b> - Meio Pesada Axial                           |
| <b>PA</b> - Pesada Axial                                 |
| <b>PAE</b> - Pesada Axial Extra                          |
| <b>PAM</b> - Pesada Axial com Mola                       |
| <b>DPA</b> - Duplo Pesada Axial                          |
| <b>DPAE</b> - Duplo Pesada Axial Extra                   |

| SISTEMA GIRATÓRIO                        |
|--|
| <b>R</b> - Reforçado 2 pistas de esferas |
| <b>A</b> - Axial                         |

| Complemento                  |
|------------------------------|
| <b>OA</b> - Freio Antigo     |
| <b>ON</b> - Freio Nariz      |
| <b>OT</b> - Freio Trava      |
| <b>OS</b> - Freio Sapata     |
| <b>OP</b> - Freio Pedal      |
| <b>TD</b> - Trava Direcional |
| <b>X</b> - Garfos em Inox    |

| MEDIDA = 614   |
|--|
| $\varnothing$ x Face Pol. <small>(Face Série 14)</small> |
| 6" x 1" + 1/2" (1 1/2")                                  |

| SUFIXO = BPKC   |
|---|
| 1ª (B) - REVESTIMENTO   |
| 2ª (P) - NÚCLEO   |
| 3ª (K) - TIPO DE ROLAMENTO  |
| 4ª (C) - CALOTA   |
| <b>REVESTIMENTOS</b>  |
| <b>B</b> - BORRACHA OU RESINA TERMOPLÁSTICA - CINZA   |
| <b>S</b> - SOFT (MACIA) - CINZA CLARA   |
| <b>T</b> - BORRACHA TERMOPLÁSTICA - AZUL  |
| <b>U</b> - POLIURETANO - LARANJA / AZUL   |
| <b>N</b> - NYLON - BRANCO   |
| <b>P</b> - POLIPROPILENO - PRETO  |
| <b>C</b> - CELERON - MARRON   |
| <b>F</b> - FERRO FUNDIDO - PRETO  |
| <b>PN</b> - PNEUMÁTICO  |
| <b>A</b> - ALUMÍNIO   |
| <b>NÚCLEO / MATERIAL</b>  |
| <b>A</b> - ALUMÍNIO <b>C</b> - CELERON <b>D</b> - DESMONTÁVEL                                   |
| <b>E</b> - ESTAMPADO <b>F</b> - FERRO FUNDIDO <b>N</b> - NYLON                                  |
| <b>P</b> - POLIPROPILENO  |
| <b>TIPOS DE MANCAIS / ROLAMENTOS</b>  |
| - - FURO PASSANTE <input type="checkbox"/>  |
| <b>N</b> - BUCHA DE NYLON GRAFITADO <input checked="" type="checkbox"/>                         |
| <b>NC</b> - 4 BUCHAS ORBITAIS DE NYLON GRAFITADO COM CALOTA <input checked="" type="checkbox"/> |
| <b>L</b> - ROLETE <input type="checkbox"/>  |
| <b>KC</b> - ROLAMENTO TIPO "SKF" COM CALOTA <input checked="" type="checkbox"/>                 |
| <b>K</b> - ROLAMENTO TIPO "SKF" <input checked="" type="checkbox"/>                             |
| <b>CALOTAS</b>  |
| <b>C</b> - CLARAS (Platinum e Precision)<br>ESCURA ( Gray e Perfecta)                           |



GDPAE 124UFK



GDPA83CK



GMR62BPK



GRRON412BPK



GRR512AUKC

(\*) Quando não houver sigla alguma representando o tipo de mancal trata-se de furo passante.  
 Ex. GLR 312 BP



# PADRÃO DE SIMBOLOGIAS E CORES



|  |                   |  |                       |  |                         |  |                                      |
|--|-------------------|--|-----------------------|--|-------------------------|--|--------------------------------------|
|  | Altura Total      |  | Material da Roda      |  | Buchas de Nylon         |  | Tamanho da Placa                     |
|  | Raio de Saída     |  | Diâmetro da Roda      |  | Rolamento de Rolete     |  | Furação da Placa                     |
|  | Face da Roda      |  | Rolamentos "tipo SKF" |  | 2 Rolamentos "tipo SKF" |  | Furo Passante                        |
|  | Cubo da Roda      |  | Ø do Furo da Placa    |  | Medida do Eixo          |  | Buchas "orbitais" de Nylon grafitado |
|  | Rodízio Giratório |  | Rodízio Fixo          |  | Tipo de Rolamento       |  | Carga                                |

|  |                   |  |                           |  |                              |  |                     |  |                      |  |                     |
|--|-------------------|--|---------------------------|--|------------------------------|--|---------------------|--|----------------------|--|---------------------|
|  | Borracha Injetada |  | Borracha Moldada          |  | Borr. Termoplástica Injetada |  | Borr. Soft Injetada |  | Poliuretano Injetado |  | Poliuretano Moldado |
|  | Nylon Injetado    |  | Nylon Inj. Integral / Gel |  | Polipropileno Injetado / BIN |  | Celeron             |  | Ferro Fundido        |  | Inox                |

## ESCOLHENDO O RODÍZIO

Comece pela "carga máxima". Carga máxima = tara + carga.  
 Como todo equipamento de 04 rodas normalmente trabalha sobre 03 pontos, devemos adotar: Carga por rodízio = CARGA MÁXIMA / 3  
 Por menores que sejam os impactos, tais como:

- Vencer pequenas saliências;
- Rodas com diâmetros maiores.

Carga por rodízio = CARGA MÁXIMA / 2

Considerar margem de segurança como:

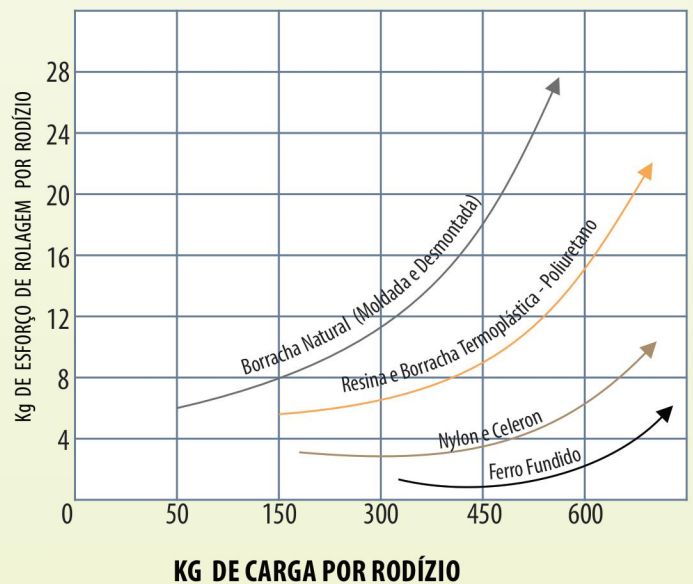
carrinho de 4 rodas dividir a carga por 2

- Considere as temperaturas e escolha o revestimento.

Temperaturas mínimas mencionadas somente quando não houver impactos.

- Sempre que as temperaturas variarem abaixo de 5°C ou acima de 82°C consultar pois necessita-se de lubrificantes especiais.

## GRÁFICO DE ESFORÇO DE ROLAGEM



**Esforço de Rolagem** é a força necessária para puxar /empurrar uma determinada carga numa velocidade constante de 4km/h. É calculada para pisos ásperos de concreto regulares e lisos para rodas de borracha natural. Em pisos ásperos, multiplique o esforço por 5, no mínimo.

**Esforço Inicial** é aquele para iniciar o movimento de um rodízio, é de aproximadamente 15% acima de esforço de rolagem. Um esforço de rolagem de 10 a 15 kgs por rodízio e considerado ÓTIMO para os serviços contínuos.

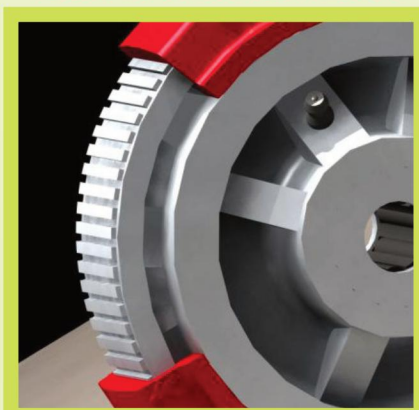


## ATENÇÃO

### MAIORES INIMIGOS DO SEU RODÍZIO

- ✓ Pisos Irregulares
- ✓ Sobre-carga
- ✓ Condições adversas ou especificações erradas
- ✓ Falta de Lubrificação
- ✓ Montagem errada
- ✓ Ácidos solventes

## SISTEMA TECNI-ROD® TECNOLOGIA PATENTEADA



Pioneira no Brasil em Rodas Injetadas

## OBSERVAÇÕES

A Rod-Car reserva-se o direito de modificar as medidas e especificações de seus produtos sem aviso prévio. As medidas que constam nesse catálogo são nominais. A variação a menor pode ocorrer apenas na largura da face da roda em função da natureza dos materiais.

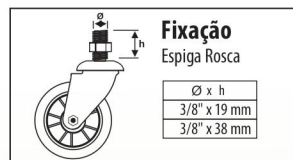
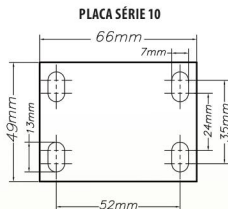
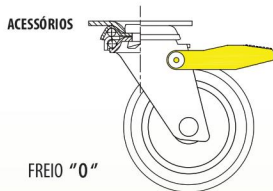
## DUPLA ADERÊNCIA MOLECULAR + MECÂNICA

A Rod-Car desenvolveu com exclusividade um sistema que amplia consideravelmente a aderência entre revestimento e núcleo da roda. O sistema patenteado TECNI-ROD®, proporciona um travamento mecânico que garante total amarração entre as partes, até mesmo entre materiais de pouca aderência molecular.

# SÉRIE 10 - LINHAS -LR/RR/HR - CARGAS DE ATÉ 80 kg

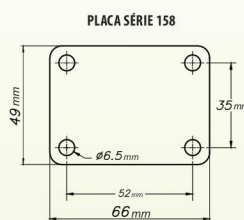


| REVESTIMENTO DA RODA   | REFERÊNCIA | LR          |             | RR          |             | HR          |             | kg | mm  | mm | mm      | mm   | mm   | mm   |    |
|------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|----|-----|----|---------|------|------|------|----|
|                        |            |             |             |             |             |             |             |    |     |    |         |      |      |      |    |
| BORRACHA               | R 210 BP   | GLR 210 BP  | FLR 210 BP  | GRR 210 BP  | FRR 210 BP  | GHR 210 BP  | FHR 210 BP  | 45 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 BP   | GLR 310 BP  | FLR 310 BP  | GRR 310 BP  | FRR 310 BP  | GHR 310 BP  | FHR 310 BP  | 60 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| GEL                    | R 210 GEL  | GLR 210 GEL | FLR 210 GEL | GRR 210 GEL | FRR 210 GEL | -           | -           | 30 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
| BORRACHA TERMOPLÁSTICA | R 210 TP   | GLR 210 TP  | FLR 210 TP  | GRR 210 TP  | FRR 210 TP  | GHR 210 TP  | FHR 210 TP  | 45 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 TP   | GLR 310 TP  | FLR 310 TP  | GRR 310 TP  | FRR 310 TP  | GHR 310 TP  | FHR 310 TP  | 60 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| BORRACHA SOFT          | R 210 SP   | GLR 210 SP  | FLR 210 SP  | GRR 210 SP  | FRR 210 SP  | GHR 210 SP  | FHR 210 SP  | 45 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 SP   | GLR 310 SP  | FLR 310 SP  | GRR 310 SP  | FRR 310 SP  | GHR 310 SP  | FHR 310 SP  | 60 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| POLIURETANO            | R 210 UP   | GLR 210 UP  | FLR 210 UP  | GRR 210 UP  | FRR 210 UP  | GHR 210 UP  | FHR 210 UP  | 50 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 UP   | GLR 310 UP  | FLR 310 UP  | GRR 310 UP  | FRR 310 UP  | GHR 310 UP  | FHR 310 UP  | 80 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| NYLON                  | R 210 NP   | GLR 210 NP  | FLR 210 NP  | GRR 210 NP  | FRR 210 NP  | GHR 210 NP  | FHR 210 NP  | 60 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 NP   | GLR 310 NP  | FLR 310 NP  | GRR 310 NP  | FRR 310 NP  | GHR 310 NP  | FHR 310 NP  | 80 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| NYLON INTEGRAL         | R 210 NN   | GLR 210 NN  | FLR 210 NN  | GRR 210 NN  | FRR 210 NN  | GHR 210 NN  | FHR 210 NN  | 80 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 NN   | GLR 310 NN  | FLR 310 NN  | GRR 310 NN  | FRR 310 NN  | GHR 310 NN  | FHR 310 NN  | 80 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| POLIPROPILENO          | R 210 PP   | GLR 210 PP  | FLR 210 PP  | GRR 210 PP  | FRR 210 PP  | GHR 210 PP  | FHR 210 PP  | 50 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
|                        | R 310 PP   | GLR 310 PP  | FLR 310 PP  | GRR 310 PP  | FRR 310 PP  | GHR 310 PP  | FHR 310 PP  | 70 | 100 | 64 | 3" 75mm | 3/4" | 1/4" | 1/4" | 28 |
| BORRACHA MACIÇA        | R 210 BIN  | GLR 210 BIN | FLR 210 BIN | GRR 210 BIN | FRR 210 BIN | GHR 210 BIN | FHR 210 BIN | 50 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 24 |
|                        | R 310 BIN  | GLR 310 BIN | FLR 310 BIN | GRR 310 BIN | FRR 310 BIN | GHR 310 BIN | FHR 310 BIN | 60 | 100 | 64 | 3" 75mm | 7/8" | 1/4" | 1/4" | 24 |
| CELERON                | R 210 C    | GLR 210 C   | FLR 210 C   | GRR 210 C   | FRR 210 C   | GHR 210 C   | FHR 210 C   | 80 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |
| FERRO                  | R 210 F    | GLR 210 F   | FLR 210 F   | GRR 210 F   | FRR 210 F   | GHR 210 F   | FHR 210 F   | 80 | 70  | 49 | 2" 50mm | 3/4" | 1/4" | 1/4" | 28 |



## LINHA - 158

| REFERÊNCIA |               |              | kg  | mm | mm | mm   | mm   | mm   | mm   | mm |
|------------|---------------|--------------|-----|----|----|------|------|------|------|----|
| R 158 N    | GDLR 158 N ZC | -            | 90  | 58 | 45 | 41mm | 17mm | 1/4" | 1/4" | 40 |
| R 158 N    | GLR 158 N ZC  | GRR 158 N ZC | 125 | 58 | 45 | 41mm | 17mm | 1/4" | 1/4" | 20 |
| R 158 Z    | GLR 158 Z ZC  | GRR 158 Z ZC | 150 | 58 | 45 | 41mm | 17mm | 1/4" | 1/4" | 20 |
| R 158 Z    | GLR 158 N BC  | GRR 158 N BC | 125 | 58 | 45 | 41mm | 17mm | 1/4" | 1/4" | 20 |
| R 158 Z    | GLR 158 Z BC  | GRR 158 Z BC | 150 | 58 | 45 | 41mm | 17mm | 1/4" | 1/4" | 20 |





# SÉRIE 12 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 150 kg



## BORRACHA - INJETADA

| REVESTIMENTO    | REFERÊNCIA        | LR           |              | RR           |              | HR           |              | kg  | mm  | mm  | mm          | mm     | mm       | + | +     | mm    |    |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-------------|--------|----------|---|-------|-------|----|
|                 |                   |              |              |              |              |              |              |     |     |     |             |        |          |   |       |       |    |
| <b>BORRACHA</b> | <b>R 312 BP</b>   | GLR 312 BP   | FLR 312 BP   | GRR 312 BP   | FRR 312 BP   | GHR 312 BP   | FHR 312 BP   | 80  | 103 | 66  | 3"<br>75mm  | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                 | <b>R 312 BPC</b>  | GLR 312 BPC  | FLR 312 BPC  | GRR 312 BPC  | FRR 312 BPC  | GHR 312 BPC  | FHR 312 BPC  |     |     |     |             |        |          | □ | 5/16" |       |    |
|                 | <b>R 312 BPKC</b> | GLR 312 BPKC | FLR 312 BPKC | GRR 312 BPKC | FRR 312 BPKC | GHR 312 BPKC | FHR 312 BPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |
|                 | <b>R 412 BP</b>   | GLR 412 BP   | FLR 412 BP   | GRR 412 BP   | FRR 412 BP   | GHR 412 BP   | FHR 412 BP   | 110 | 127 | 92  | 4"<br>100mm | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                 | <b>R 412 BPNC</b> | GLR 412 BPNC | FLR 412 BPNC | GRR 412 BPNC | FRR 412 BPNC | GHR 412 BPNC | FHR 412 BPNC |     |     |     |             |        | <b>N</b> | □ | 5/16" |       |    |
|                 | <b>R 412 BPKC</b> | GLR 412 BPKC | FLR 412 BPKC | GRR 412 BPKC | FRR 412 BPKC | GHR 412 BPKC | FHR 412 BPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |
|                 | <b>R 512 BP</b>   | GLR 512 BP   | FLR 512 BP   | GRR 512 BP   | FRR 512 BP   | GHR 512 BP   | FHR 512 BP   | 125 | 157 | 105 | 5"<br>125mm | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                 | <b>R 512 BPNC</b> | GLR 512 BPNC | FLR 512 BPNC | GRR 512 BPNC | FRR 512 BPNC | GHR 512 BPNC | FHR 512 BPNC |     |     |     |             |        | <b>N</b> | □ | 5/16" |       |    |
|                 | <b>R 512 BPKC</b> | GLR 512 BPKC | FLR 512 BPKC | GRR 512 BPKC | FRR 512 BPKC | GHR 512 BPKC | FHR 512 BPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |
|                 | <b>R 612 BP</b>   | GLR 612 BP   | FLR 612 BP   | GRR 612 BP   | FRR 612 BP   | GHR 612 BP   | FHR 612 BP   | 125 | 177 | 120 | 6"<br>150mm | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                 | <b>R 612 BPNC</b> | GLR 612 BPNC | FLR 612 BPNC | GRR 612 BPNC | FRR 612 BPNC | GHR 612 BPNC | FHR 612 BPNC |     |     |     |             |        | <b>N</b> | □ | 5/16" |       |    |
|                 | <b>R 612 BPKC</b> | GLR 612 BPKC | FLR 612 BPKC | GRR 612 BPKC | FRR 612 BPKC | GHR 612 BPKC | FHR 612 BPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |



## BORRACHA TERMOPLÁSTICA- INJETADA

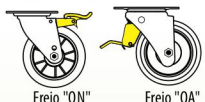
| REVESTIMENTO                    | REFERÊNCIA        | LR           |              | RR           |              | HR           |              | kg  | mm  | mm  | mm          | mm     | mm       | + | +     | mm    |    |
|---------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-------------|--------|----------|---|-------|-------|----|
|                                 |                   |              |              |              |              |              |              |     |     |     |             |        |          |   |       |       |    |
| <b>BORRACHA - TERMOPLÁSTICA</b> | <b>R 312 TP</b>   | GLR 312 TP   | FLR 312 TP   | GRR 312 TP   | FRR 312 TP   | GHR 312 TP   | FHR 312 TP   | 80  | 103 | 66  | 3"<br>75mm  | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                                 | <b>R 312 TPC</b>  | GLR 312 TPC  | FLR 312 TPC  | GRR 312 TPC  | FRR 312 TPC  | GHR 312 TPC  | FHR 312 TPC  |     |     |     |             |        |          | □ | 5/16" |       |    |
|                                 | <b>R 312 TPKC</b> | GLR 312 TPKC | FLR 312 TPKC | GRR 312 TPKC | FRR 312 TPKC | GHR 312 TPKC | FHR 312 TPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |
|                                 | <b>R 412 TP</b>   | GLR 412 TP   | FLR 412 TP   | GRR 412 TP   | FRR 412 TP   | GHR 412 TP   | FHR 412 TP   | 110 | 127 | 92  | 4"<br>100mm | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                                 | <b>R 412 TPNC</b> | GLR 412 TPNC | FLR 412 TPNC | GRR 412 TPNC | FRR 412 TPNC | GHR 412 TPNC | FHR 412 TPNC |     |     |     |             |        | <b>N</b> | □ | 5/16" |       |    |
|                                 | <b>R 412 TPKC</b> | GLR 412 TPKC | FLR 412 TPKC | GRR 412 TPKC | FRR 412 TPKC | GHR 412 TPKC | FHR 412 TPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |
|                                 | <b>R 512 TP</b>   | GLR 512 TP   | FLR 512 TP   | GRR 512 TP   | FRR 512 TP   | GHR 512 TP   | FHR 512 TP   | 125 | 157 | 105 | 5"<br>125mm | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                                 | <b>R 512 TPNC</b> | GLR 512 TPNC | FLR 512 TPNC | GRR 512 TPNC | FRR 512 TPNC | GHR 512 TPNC | FHR 512 TPNC |     |     |     |             |        | <b>N</b> | □ | 5/16" |       |    |
|                                 | <b>R 512 TPKC</b> | GLR 512 TPKC | FLR 512 TPKC | GRR 512 TPKC | FRR 512 TPKC | GHR 512 TPKC | FHR 512 TPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |
|                                 | <b>R 612 TP</b>   | GLR 612 TP   | FLR 612 TP   | GRR 612 TP   | FRR 612 TP   | GHR 612 TP   | FHR 612 TP   | 125 | 177 | 120 | 6"<br>150mm | 1.1/4" |          | □ | 5/16" | 5/16" | 38 |
|                                 | <b>R 612 TPNC</b> | GLR 612 TPNC | FLR 612 TPNC | GRR 612 TPNC | FRR 612 TPNC | GHR 612 TPNC | FHR 612 TPNC |     |     |     |             |        | <b>N</b> | □ | 5/16" |       |    |
|                                 | <b>R 612 TPKC</b> | GLR 612 TPKC | FLR 612 TPKC | GRR 612 TPKC | FRR 612 TPKC | GHR 612 TPKC | FHR 612 TPKC |     |     |     |             |        | <b>K</b> | □ | K15   |       |    |



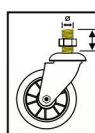
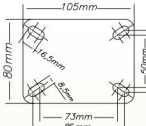
## CELERON

| CELERON | REFERÊNCIA     | LR        |           | RR        |           | HR        |           | kg  | mm  | mm | mm         | mm     | mm | +     | +     | mm |
|---------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|----|------------|--------|----|-------|-------|----|
|         |                |           |           |           |           |           |           |     |     |    |            |        |    |       |       |    |
|         | <b>R 312 C</b> | GLR 312 C | FLR 312 C | GRR 312 C | FRR 312 C | GHR 312 C | FHR 312 C | 150 | 103 | 66 | 3"<br>75mm | 1.1/4" | □  | 5/16" | 5/16" | 38 |

### ACESSÓRIOS

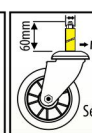


### PLACA SÉRIE 12



**Fixação**  
Espiga Rosca  
1/2" x 25 mm  
ROSCA  
Série 12

| Ø x h           |
|-----------------|
| 12 1/2" x 25 mm |



**Fixação por Expansor**  
Espiga Rosca  
Série 12 1/2" x 60 mm

### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamento blindado tipo "SKF"

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO | MATERIAL DO MÓDULO |
|-------|------------------------|---------|----------------|--------------------|--------------------|
|       | Mínimo                 | Máximo  |                |                    |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL BO NY           | AL ALUMÍNIO        |
| 1.3/4 | 27 mm                  | 28,5 mm | DELTA          | AL BO NY           | BO BORRACHA        |
| 1.3/2 | 35 mm                  | 37 mm   | EPSILON        | AL BO NY           | NY NYLON           |
| 1.3/8 | 36,5 mm                | 38,5 mm | DZETA          | AL BO              | NY NYLON           |

Para especificar rodízios com expansivos, indicar à ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY

# SÉRIE 12 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 170 kg



## BORRACHA SOFT - INJETADA

| REVESTIMENTO    | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm          | mm     | mm | + | +     | mm    |    |
|-----------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|                 |            |              |              |              |              |              |              |     |     |     |             |        |    |   |       |       |    |
| BORRACHA - SOFT | R 312 SP   | GLR 312 SP   | FLR 312 SP   | GRR 312 SP   | FRR 312 SP   | GHR 312 SP   | FHR 312 SP   | 80  | 103 | 66  | 3"<br>75mm  | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|                 | R 312 SPC  | GLR 312 SPC  | FLR 312 SPC  | GRR 312 SPC  | FRR 312 SPC  | GHR 312 SPC  | FHR 312 SPC  |     |     |     |             |        |    | □ | 5/16" |       |    |
|                 | R 312 SPKC | GLR 312 SPKC | FLR 312 SPKC | GRR 312 SPKC | FRR 312 SPKC | GHR 312 SPKC | FHR 312 SPKC |     |     |     |             |        | K  | □ | K15   |       |    |
|                 | R 412 SP   | GLR 412 SP   | FLR 412 SP   | GRR 412 SP   | FRR 412 SP   | GHR 412 SP   | FHR 412 SP   | 110 | 127 | 92  | 4"<br>100mm | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|                 | R 412 SPNC | GLR 412 SPNC | FLR 412 SPNC | GRR 412 SPNC | FRR 412 SPNC | GHR 412 SPNC | FHR 412 SPNC |     |     |     |             |        | N  | □ | 5/16" |       |    |
|                 | R 412 SPKC | GLR 412 SPKC | FLR 412 SPKC | GRR 412 SPKC | FRR 412 SPKC | GHR 412 SPKC | FHR 412 SPKC |     |     |     |             |        | K  | □ | K15   |       |    |
|                 | R 512 SP   | GLR 512 SP   | FLR 512 SP   | GRR 512 SP   | FRR 512 SP   | GHR 512 SP   | FHR 512 SP   | 125 | 157 | 105 | 5"<br>125mm | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|                 | R 512 SPNC | GLR 512 SPNC | FLR 512 SPNC | GRR 512 SPNC | FRR 512 SPNC | GHR 512 SPNC | FHR 512 SPNC |     |     |     |             |        | N  | □ | 5/16" |       |    |
|                 | R 512 SPKC | GLR 512 SPKC | FLR 512 SPKC | GRR 512 SPKC | FRR 512 SPKC | GHR 512 SPKC | FHR 512 SPKC |     |     |     |             |        | K  | □ | K15   |       |    |
|                 | R 612 SP   | GLR 612 SP   | FLR 612 SP   | GRR 612 SP   | FRR 612 SP   | GHR 612 SP   | FHR 612 SP   | 125 | 177 | 120 | 6"<br>150mm | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|                 | R 612 SPNC | GLR 612 SPNC | FLR 612 SPNC | GRR 612 SPNC | FRR 612 SPNC | GHR 612 SPNC | FHR 612 SPNC |     |     |     |             |        | N  | □ | 5/16" |       |    |
|                 | R 612 SPKC | GLR 612 SPKC | FLR 612 SPKC | GRR 612 SPKC | FRR 612 SPKC | GHR 612 SPKC | FHR 612 SPKC |     |     |     |             |        | K  | □ | K15   |       |    |



## POLIURETANO - INJETADO

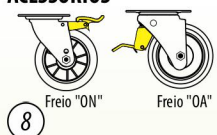
| REVESTIMENTO | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm          | mm     | mm | + | +     | mm    |    |
|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|              |            |              |              |              |              |              |              |     |     |     |             |        |    |   |       |       |    |
| POLIURETANO  | R 312 UP   | GLR 312 UP   | FLR 312 UP   | GRR 312 UP   | FRR 312 UP   | GHR 312 UP   | FHR 312 UP   | 90  | 103 | 66  | 3"<br>75mm  | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|              | R 312 UPC  | GLR 312 UPC  | FLR 312 UPC  | GRR 312 UPC  | FRR 312 UPC  | GHR 312 UPC  | FHR 312 UPC  |     |     |     |             |        |    | □ | 5/16" |       |    |
|              | R 312 UPKC | GLR 312 UPKC | FLR 312 UPKC | GRR 312 UPKC | FRR 312 UPKC | GHR 312 UPKC | FHR 312 UPKC |     |     |     |             |        | K  | □ | K15   |       |    |
|              | R 412 UP   | GLR 412 UP   | FLR 412 UP   | GRR 412 UP   | FRR 412 UP   | GHR 412 UP   | FHR 412 UP   | 125 | 127 | 92  | 4"<br>100mm | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|              | R 412 UPNC | GLR 412 UPNC | FLR 412 UPNC | GRR 412 UPNC | FRR 412 UPNC | GHR 412 UPNC | FHR 412 UPNC |     |     |     |             |        | N  | □ | 5/16" |       |    |
|              | R 412 UPKC | GLR 412 UPKC | FLR 412 UPKC | GRR 412 UPKC | FRR 412 UPKC | GHR 412 UPKC | FHR 412 UPKC |     |     |     |             |        | K  | □ | K15   |       |    |
|              | R 512 UP   | GLR 512 UP   | FLR 512 UP   | GRR 512 UP   | FRR 512 UP   | GHR 512 UP   | FHR 512 UP   | 150 | 157 | 105 | 5"<br>125mm | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|              | R 512 UPNC | GLR 512 UPNC | FLR 512 UPNC | GRR 512 UPNC | FRR 512 UPNC | GHR 512 UPNC | FHR 512 UPNC |     |     |     |             |        | N  | □ | 5/16" |       |    |
|              | R 512 UPKC | GLR 512 UPKC | FLR 512 UPKC | GRR 512 UPKC | FRR 512 UPKC | GHR 512 UPKC | FHR 512 UPKC |     |     |     |             |        | K  | □ | K15   |       |    |
|              | R 612 UP   | GLR 612 UP   | FLR 612 UP   | GRR 612 UP   | FRR 612 UP   | GHR 612 UP   | FHR 612 UP   | 150 | 177 | 120 | 6"<br>150mm | 1.1/4" |    | □ | 5/16" | 5/16" | 38 |
|              | R 612 UPNC | GLR 612 UPNC | FLR 612 UPNC | GRR 612 UPNC | FRR 612 UPNC | GHR 612 UPNC | FHR 612 UPNC |     |     |     |             |        | N  | □ | 5/16" |       |    |
|              | R 612 UPKC | GLR 612 UPKC | FLR 612 UPKC | GRR 612 UPKC | FRR 612 UPKC | GHR 612 UPKC | FHR 612 UPKC |     |     |     |             |        | K  | □ | K15   |       |    |



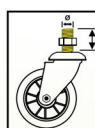
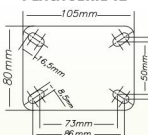
## POLIURETANO - MOLDADO

| REVESTIMENTO        | REFERÊNCIA | LR          |             | RR          |             | HR          |             | KG  | mm  | mm | mm         | mm     | mm | + | +     | mm    |    |
|---------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|----|------------|--------|----|---|-------|-------|----|
|                     |            |             |             |             |             |             |             |     |     |    |            |        |    |   |       |       |    |
| POLIURETANO MOLDADO | R 312 UFN  | GLR 312 UFN | FLR 312 UFN | GRR 312 UFN | FRR 312 UFN | GHR 312 UFN | FHR 312 UFN | 170 | 103 | 66 | 3"<br>75mm | 1.1/4" | N  | □ | 5/16" | 5/16" | 38 |
|                     | R 312 UFK  | GLR 312 UFK | FLR 312 UFK | GRR 312 UFK | FRR 312 UFK | GHR 312 UFK | FHR 312 UFK |     |     |    |            |        | K  | □ | K9    |       |    |

### ACESSÓRIOS



### PLACA SÉRIE 12



**Fixação**  
Espiga Rosca  
1/2" x 25 mm  
ROSCA  
Série 12 Ø x h  
12 1/2" x 25 mm



**Fixação por Expansor**  
Espiga Rosca  
1/2" x 60 mm  
Série 12

### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamento blindado tipo "SKF"

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO | MATERIAL DO MÓDULO |
|-------|------------------------|---------|----------------|--------------------|--------------------|
|       | Mínimo                 | Máximo  |                |                    |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL BO NY           | AL ALUMÍNIO        |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL BO NY           | BO BORRACHA        |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL BO NY           | NY NYLON           |
| 1.3/4 | 36,5 mm                | 38,5 mm | DZETA          | AL BO NY           | NY NYLON           |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY



# SÉRIE 12 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 170 kg



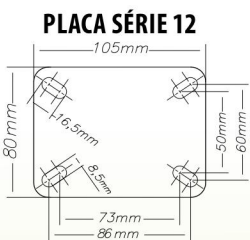
## NYLON - INJETADO

| REVESTIMENTO | REFERÊNCIA | LR           |              | RR           |              | HR           |              | kg  | mm  | mm  | mm          | mm     | + | + | mm    |
|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-------------|--------|---|---|-------|
|              |            |              |              |              |              |              |              |     |     |     |             |        |   |   |       |
| NYLON        | R 312 NP   | GLR 312 NP   | FLR 312 NP   | GRR 312 NP   | FRR 312 NP   | GHR 312 NP   | FHR 312 NP   | 90  | 103 | 66  | 3"<br>75mm  | 1.1/4" | K | + | 5/16" |
|              | R 312 NPC  | GLR 312 NPC  | FLR 312 NPC  | GRR 312 NPC  | FRR 312 NPC  | GHR 312 NPC  | FHR 312 NPC  |     |     |     |             |        |   |   |       |
|              | R 312 NPKC | GLR 312 NPKC | FLR 312 NPKC | GRR 312 NPKC | FRR 312 NPKC | GHR 312 NPKC | FHR 312 NPKC |     |     |     |             |        |   |   |       |
|              | R 412 NP   | GLR 412 NP   | FLR 412 NP   | GRR 412 NP   | FRR 412 NP   | GHR 412 NP   | FHR 412 NP   | 125 | 127 | 92  | 4"<br>100mm | 1.1/4" | N | + | 5/16" |
|              | R 412 NPNC | GLR 412 NPNC | FLR 412 NPNC | GRR 412 NPNC | FRR 412 NPNC | GHR 412 NPNC | FHR 412 NPNC |     |     |     |             |        |   |   |       |
|              | R 412 NPKC | GLR 412 NPKC | FLR 412 NPKC | GRR 412 NPKC | FRR 412 NPKC | GHR 412 NPKC | FHR 412 NPKC |     |     |     |             |        |   |   |       |
|              | R 512 NP   | GLR 512 NP   | FLR 512 NP   | GRR 512 NP   | FRR 512 NP   | GHR 512 NP   | FHR 512 NP   | 150 | 157 | 105 | 5"<br>125mm | 1.1/4" | K | + | 5/16" |
|              | R 512 NPNC | GLR 512 NPNC | FLR 512 NPNC | GRR 512 NPNC | FRR 512 NPNC | GHR 512 NPNC | FHR 512 NPNC |     |     |     |             |        |   |   |       |
|              | R 512 NPKC | GLR 512 NPKC | FLR 512 NPKC | GRR 512 NPKC | FRR 512 NPKC | GHR 512 NPKC | FHR 512 NPKC |     |     |     |             |        |   |   |       |
|              | R 612 NP   | GLR 612 NP   | FLR 612 NP   | GRR 612 NP   | FRR 612 NP   | GHR 612 NP   | FHR 612 NP   | 150 | 177 | 120 | 6"<br>150mm | 1.1/4" | N | + | 5/16" |
|              | R 612 NPNC | GLR 612 NPNC | FLR 612 NPNC | GRR 612 NPNC | FRR 612 NPNC | GHR 612 NPNC | FHR 612 NPNC |     |     |     |             |        |   |   |       |
|              | R 612 NPKC | GLR 612 NPKC | FLR 612 NPKC | GRR 612 NPKC | FRR 612 NPKC | GHR 612 NPKC | FHR 612 NPKC |     |     |     |             |        |   |   |       |

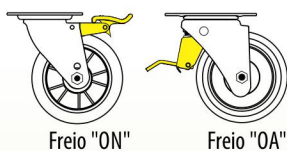


## NYLON INJETADO - INTEGRAL

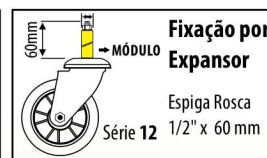
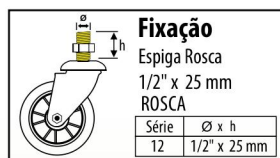
| REVESTIMENTO     | REFERÊNCIA | LR           |              | RR           |              | HR           |              | kg  | mm  | mm  | mm          | mm     | + | + | mm    |
|------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|-------------|--------|---|---|-------|
|                  |            |              |              |              |              |              |              |     |     |     |             |        |   |   |       |
| NYLON - INTEGRAL | R 312 N    | GLR 312 N    | FLR 312 N    | GRR 312 N    | FRR 312 N    | GHR 312 N    | FHR 312 N    | 150 | 103 | 66  | 3"<br>75mm  | 1.1/4" | K | + | 5/16" |
|                  | R 312 NNC  | GLR 312 NNC  | FLR 312 NNC  | GRR 312 NNC  | FRR 312 NNC  | GHR 312 NNC  | FHR 312 NNC  |     |     |     |             |        |   |   |       |
|                  | R 312 NNKC | GLR 312 NNKC | FLR 312 NNKC | GRR 312 NNKC | FRR 312 NNKC | GHR 312 NNKC | FHR 312 NNKC |     |     |     |             |        |   |   |       |
|                  | R 412 N    | GLR 412 N    | FLR 412 N    | GRR 412 N    | FRR 412 N    | GHR 412 N    | FHR 412 N    | 170 | 127 | 92  | 4"<br>100mm | 1.1/4" | N | + | 5/16" |
|                  | R 412 NNC  | GLR 412 NNC  | FLR 412 NNC  | GRR 412 NNC  | FRR 412 NNC  | GHR 412 NNC  | FHR 412 NNC  |     |     |     |             |        |   |   |       |
|                  | R 412 NNKC | GLR 412 NNKC | FLR 412 NNKC | GRR 412 NNKC | FRR 412 NNKC | GHR 412 NNKC | FHR 412 NNKC |     |     |     |             |        |   |   |       |
|                  | R 512 N    | GLR 512 N    | FLR 512 N    | GRR 512 N    | FRR 512 N    | GHR 512 N    | FHR 512 N    | 170 | 157 | 105 | 5"<br>125mm | 1.1/4" | K | + | 5/16" |
|                  | R 512 NNC  | GLR 512 NNC  | FLR 512 NNC  | GRR 512 NNC  | FRR 512 NNC  | GHR 512 NNC  | FHR 512 NNC  |     |     |     |             |        |   |   |       |
|                  | R 512 NNKC | GLR 512 NNKC | FLR 512 NNKC | GRR 512 NNKC | FRR 512 NNKC | GHR 512 NNKC | FHR 512 NNKC |     |     |     |             |        |   |   |       |
|                  | R 612 N    | GLR 612 N    | FLR 612 N    | GRR 612 N    | FRR 612 N    | GHR 612 N    | FHR 612 N    | 170 | 177 | 120 | 6"<br>150mm | 1.1/4" | N | + | 5/16" |
|                  | R 612 NNC  | GLR 612 NNC  | FLR 612 NNC  | GRR 612 NNC  | FRR 612 NNC  | GHR 612 NNC  | FHR 612 NNC  |     |     |     |             |        |   |   |       |
|                  | R 612 NNKC | GLR 612 NNKC | FLR 612 NNKC | GRR 612 NNKC | FRR 612 NNKC | GHR 612 NNKC | FHR 612 NNKC |     |     |     |             |        |   |   |       |



### ACESSÓRIOS



### CABEÇOTES



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamento blindado tipo "SKF"

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO |    |    | MATERIAL DO MÓDULO |
|-------|------------------------|---------|----------------|--------------------|----|----|--------------------|
|       | Mínimo                 | Máximo  |                | AL                 | BO | NY |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL                 | BO | NY | AL ALUMÍNIO        |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL                 | BO | NY | BO BORRACHA        |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL                 | BO | NY | NY NYLON           |
| 1.5/8 | 36,5 mm                | 38,5 mm | DZETA          | AL                 | BO | NY |                    |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY

# SÉRIE 12 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 175 kg



## POLIPROPILENO - INJETADO

| REVESTIMENTO  | REFERÊNCIA   | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | +      | + | +   | mm    |       |    |
|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|---|-----|-------|-------|----|
|               |              |              |              |              |              |              |              |     |     |     |    |       |        |   |     |       |       |    |
| POLIPROPILENO | R 312 P      | GLR 312 P    | FLR 312 P    | GRR 312 P    | FRR 312 P    | GHR 312 P    | FHR 312 P    | 90  | 103 | 66  | 3" | 75mm  | 1.1/4" |   |     | 5/16" |       |    |
|               | R 312 PP     | GLR 312 PP   | FLR 312 PP   | GRR 312 PP   | FRR 312 PP   | GHR 312 PP   | FHR 312 PP   |     |     |     |    |       |        |   |     | 5/16" |       |    |
|               | R 312 PPC    | GLR 312 PPC  | FLR 312 PPC  | GRR 312 PPC  | FRR 312 PPC  | GHR 312 PPC  | FHR 312 PPC  |     |     |     |    |       |        |   |     | 5/16" |       |    |
|               | R 312 PPKC   | GLR 312 PPKC | FLR 312 PPKC | GRR 312 PPKC | FRR 312 PPKC | GHR 312 PPKC | FHR 312 PPKC |     |     |     |    |       |        | K |     | K15   |       |    |
|               | R 412 PP     | GLR 412 PP   | FLR 412 PP   | GRR 412 PP   | FRR 412 PP   | GHR 412 PP   | FHR 412 PP   | 105 | 127 | 92  | 4" | 100mm | 1.1/4" |   |     | 5/16" | 5/16" | 38 |
|               | R 412 PPNC   | GLR 412 PPNC | FLR 412 PPNC | GRR 412 PPNC | FRR 412 PPNC | GHR 412 PPNC | FHR 412 PPNC |     |     |     |    |       |        | N |     | 5/16" |       |    |
|               | R 412 PPKC   | GLR 412 PPKC | FLR 412 PPKC | GRR 412 PPKC | FRR 412 PPKC | GHR 412 PPKC | FHR 412 PPKC |     |     |     |    |       |        | K |     | K15   |       |    |
|               | R 512 PP     | GLR 512 PP   | FLR 512 PP   | GRR 512 PP   | FRR 512 PP   | GHR 512 PP   | FHR 512 PP   | 125 | 157 | 105 | 5" | 125mm | 1.1/4" |   |     | 5/16" |       |    |
|               | R 512 PPNC   | GLR 512 PPNC | FLR 512 PPNC | GRR 512 PPNC | FRR 512 PPNC | GHR 512 PPNC | FHR 512 PPNC |     |     |     |    |       |        | N |     | 5/16" |       |    |
|               | R 512 PPKC   | GLR 512 PPKC | FLR 512 PPKC | GRR 512 PPKC | FRR 512 PPKC | GHR 512 PPKC | FHR 512 PPKC |     |     |     |    |       |        | K |     | K15   |       |    |
|               | R 612 PP     | GLR 612 PP   | FLR 612 PP   | GRR 612 PP   | FRR 612 PP   | GHR 612 PP   | FHR 612 PP   | 150 | 177 | 120 | 6" | 150mm | 1.1/4" |   |     | 5/16" |       |    |
|               | R 612 PPNC   | GLR 612 PPNC | FLR 612 PPNC | GRR 612 PPNC | FRR 612 PPNC | GHR 612 PPNC | FHR 612 PPNC |     |     |     |    |       |        | N |     | 5/16" |       |    |
| R 612 PPKC    | GLR 612 PPKC | FLR 612 PPKC | GRR 612 PPKC | FRR 612 PPKC | GHR 612 PPKC | FHR 612 PPKC | K            |     |     |     |    |       |        |   | K15 |       |       |    |



## FERRO FUNDIDO

| FERRO | REFERÊNCIA | LR        |           | RR        |           | HR        |           | KG  | mm  | mm | mm | mm   | +      | + | + | mm    |       |    |
|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|----|----|------|--------|---|---|-------|-------|----|
|       |            |           |           |           |           |           |           |     |     |    |    |      |        |   |   |       |       |    |
|       | R 312 F    | GLR 312 F | FLR 312 F | GRR 312 F | FRR 312 F | GHR 312 F | FHR 312 F | 170 | 103 | 66 | 3" | 75mm | 1.1/4" |   |   | 5/16" | 5/16" | 38 |



## BORRACHA - MOLDADA

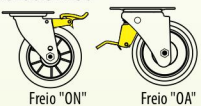
| BORRACHA MOLDADA | REFERÊNCIA | LR          |             | RR          |             | HR          |             | KG | mm  | mm | mm | mm   | +      | + | + | mm    |       |    |
|------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|----|-----|----|----|------|--------|---|---|-------|-------|----|
|                  |            |             |             |             |             |             |             |    |     |    |    |      |        |   |   |       |       |    |
|                  | R 312 BFN  | GLR 312 BFN | FLR 312 BFN | GRR 312 BFN | FRR 312 BFN | GHR 312 BFN | FHR 312 BFN | 90 | 103 | 66 | 3" | 75mm | 1.1/4" |   |   | 5/16" | 5/16" | 38 |



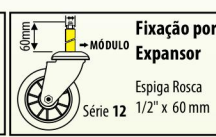
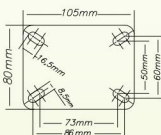
## BORRACHA MACIÇA - LINHA BIN

| REVESTIMENTO | REFERÊNCIA | LR          |             | RR          |             | HR          |             | KG  | mm  | mm  | mm | mm     | + | + | +     | mm    |    |
|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|-----|----|--------|---|---|-------|-------|----|
|              |            |             |             |             |             |             |             |     |     |     |    |        |   |   |       |       |    |
| BORRACHA     | R 312 BIN  | GLR 312 BIN | FLR 312 BIN | GRR 312 BIN | FRR 312 BIN | GHR 312 BIN | FHR 312 BIN | 80  | 103 | 66  | 3" | 1.1/4" | N |   | 5/16" | 5/16" | 38 |
|              | R 412 BIN  | GLR 412 BIN | FLR 412 BIN | GRR 412 BIN | FRR 412 BIN | GHR 412 BIN | FHR 412 BIN | 125 | 127 | 92  | 4" |        | N |   | 5/16" |       |    |
|              | R 512 BIN  | GLR 512 BIN | FLR 512 BIN | GRR 512 BIN | FRR 512 BIN | GHR 512 BIN | FHR 512 BIN | 150 | 157 | 105 | 5" |        | N |   | 5/16" |       |    |
|              | R 612 BIN  | GLR 612 BIN | FLR 612 BIN | GRR 612 BIN | FRR 612 BIN | GHR 612 BIN | FHR 612 BIN | 175 | 177 | 120 | 6" |        | N |   | 5/16" |       |    |

### ACESSÓRIOS



### PLACA SÉRIE 12



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamento blindado tipo "SKF"

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO | MATERIAL DO MÓDULO |
|-------|------------------------|---------|----------------|--------------------|--------------------|
|       | Mínimo                 | Máximo  |                |                    |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL BO NY           | AL ALUMÍNIO        |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL BO NY           | AL ALUMÍNIO        |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL BO NY           | BO BORRACHA        |
| 1.3/4 | 36,5 mm                | 38,5 mm | DZETA          | AL BO NY           | NY NYLON           |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY



# SÉRIE 12 - LINHA INOX - CARGAS DE ATÉ 120 kg



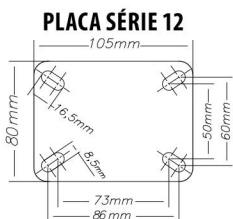
## BORRACHA INJETADA - INOX

| REVESTIMENTO | REFERÊNCIA | LRX           |               | RRX           |               | HRX           |               | KG | mm  | mm  | mm          | mm     | + | +     | mm    |    |
|--------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|----|-----|-----|-------------|--------|---|-------|-------|----|
|              |            |               |               |               |               |               |               |    |     |     |             |        |   |       |       |    |
| BORRACHA     | R 312 BP   | GLRX 312 BP   | FLRX 312 BP   | GRRX 312 BP   | FRRX 312 BP   | GHRX 312 BP   | FHRX 312 BP   | 40 | 103 | 66  | 3"<br>75mm  | 1.1/4" | □ | 5/16" | 5/16" | 38 |
|              | R 312 BPC  | GLRX 312 BPC  | FLRX 312 BPC  | GRRX 312 BPC  | FRRX 312 BPC  | GHRX 312 BPC  | FHRX 312 BPC  |    |     |     |             |        |   |       |       |    |
|              | R 312 BPKC | GLRX 312 BPKC | FLRX 312 BPKC | GRRX 312 BPKC | FRRX 312 BPKC | GHRX 312 BPKC | FHRX 312 BPKC |    |     |     |             |        |   |       |       |    |
|              | R 412 BP   | GLRX 412 BP   | FLRX 412 BP   | GRRX 412 BP   | FRRX 412 BP   | GHRX 412 BP   | FHRX 412 BP   | 55 | 127 | 92  | 4"<br>100mm | 1.1/4" | □ | 5/16" |       |    |
|              | R 412 BPNC | GLRX 412 BPNC | FLRX 412 BPNC | GRRX 412 BPNC | FRRX 412 BPNC | GHRX 412 BPNC | FHRX 412 BPNC |    |     |     |             |        |   |       |       |    |
|              | R 412 BPKC | GLRX 412 BPKC | FLRX 412 BPKC | GRRX 412 BPKC | FRRX 412 BPKC | GHRX 412 BPKC | FHRX 412 BPKC |    |     |     |             |        |   |       |       |    |
|              | R 512 BP   | GLRX 512 BP   | FLRX 512 BP   | GRRX 512 BP   | FRRX 512 BP   | GHRX 512 BP   | FHRX 512 BP   | 65 | 157 | 105 | 5"<br>125mm | 1.1/4" | □ | 5/16" |       |    |
|              | R 512 BPNC | GLRX 512 BPNC | FLRX 512 BPNC | GRRX 512 BPNC | FRRX 512 BPNC | GHRX 512 BPNC | FHRX 512 BPNC |    |     |     |             |        |   |       |       |    |
|              | R 512 BPKC | GLRX 512 BPKC | FLRX 512 BPKC | GRRX 512 BPKC | FRRX 512 BPKC | GHRX 512 BPKC | FHRX 512 BPKC |    |     |     |             |        |   |       |       |    |
|              | R 612 BP   | GLRX 612 BP   | FLRX 612 BP   | GRRX 612 BP   | FRRX 612 BP   | GHRX 612 BP   | FHRX 612 BP   | 75 | 177 | 120 | 6"<br>150mm | 1.1/4" | □ | 5/16" |       |    |
|              | R 612 BPNC | GLRX 612 BPNC | FLRX 612 BPNC | GRRX 612 BPNC | FRRX 612 BPNC | GHRX 612 BPNC | FHRX 612 BPNC |    |     |     |             |        |   |       |       |    |
|              | R 612 BPKC | GLRX 612 BPKC | FLRX 612 BPKC | GRRX 612 BPKC | FRRX 612 BPKC | GHRX 612 BPKC | FHRX 612 BPKC |    |     |     |             |        |   |       |       |    |



## NYLON INJETADO - INOX

| REVESTIMENTO     | REFERÊNCIA | LRX           |               | RRX           |               | HRX           |               | KG  | mm  | mm  | mm          | mm     | + | +     | mm    |    |
|------------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|-----|-----|-------------|--------|---|-------|-------|----|
|                  |            |               |               |               |               |               |               |     |     |     |             |        |   |       |       |    |
| NYLON - INTEGRAL | R 312 N    | GLRX 312 N    | FLRX 312 N    | GRRX 312 N    | FRRX 312 N    | GHRX 312 N    | FHRX 312 N    | 105 | 103 | 66  | 3"<br>75mm  | 1.1/4" | □ | 5/16" | 5/16" | 38 |
|                  | R 312 NNC  | GLRX 312 NNC  | FLRX 312 NNC  | GRRX 312 NNC  | FRRX 312 NNC  | GHRX 312 NNC  | FHRX 312 NNC  |     |     |     |             |        |   |       |       |    |
|                  | R 312 NNKC | GLRX 312 NNKC | FLRX 312 NNKC | GRRX 312 NNKC | FRRX 312 NNKC | GHRX 312 NNKC | FHRX 312 NNKC |     |     |     |             |        |   |       |       |    |
|                  | R 412 N    | GLRX 412 N    | FLRX 412 N    | GRRX 412 N    | FRRX 412 N    | GHRX 412 N    | FHRX 412 N    | 120 | 127 | 92  | 4"<br>100mm | 1.1/4" | □ | 5/16" |       |    |
|                  | R 412 NNNC | GLRX 412 NNNC | FLRX 412 NNNC | GRRX 412 NNNC | FRRX 412 NNNC | GHRX 412 NNNC | FHRX 412 NNNC |     |     |     |             |        |   |       |       |    |
|                  | R 412 NNKC | GLRX 412 NNKC | FLRX 412 NNKC | GRRX 412 NNKC | FRRX 412 NNKC | GHRX 412 NNKC | FHRX 412 NNKC |     |     |     |             |        |   |       |       |    |
|                  | R 512 N    | GLRX 512 N    | FLRX 512 N    | GRRX 512 N    | FRRX 512 N    | GHRX 512 N    | FHRX 512 N    | 120 | 157 | 105 | 5"<br>125mm | 1.1/4" | □ | 5/16" |       |    |
|                  | R 512 NNNC | GLRX 512 NNNC | FLRX 512 NNNC | GRRX 512 NNNC | FRRX 512 NNNC | GHRX 512 NNNC | FHRX 512 NNNC |     |     |     |             |        |   |       |       |    |
|                  | R 512 NNKC | GLRX 512 NNKC | FLRX 512 NNKC | GRRX 512 NNKC | FRRX 512 NNKC | GHRX 512 NNKC | FHRX 512 NNKC |     |     |     |             |        |   |       |       |    |
|                  | R 612 N    | GLRX 612 N    | FLRX 612 N    | GRRX 612 N    | FRRX 612 N    | GHRX 612 N    | FHRX 612 N    | 120 | 177 | 120 | 6"<br>150mm | 1.1/4" | □ | 5/16" |       |    |
|                  | R 612 NNNC | GLRX 612 NNNC | FLRX 612 NNNC | GRRX 612 NNNC | FRRX 612 NNNC | GHRX 612 NNNC | FHRX 612 NNNC |     |     |     |             |        |   |       |       |    |
|                  | R 612 NNKC | GLRX 612 NNKC | FLRX 612 NNKC | GRRX 612 NNKC | FRRX 612 NNKC | GHRX 612 NNKC | FHRX 612 NNKC |     |     |     |             |        |   |       |       |    |

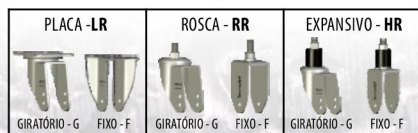


### ACESSÓRIOS



Freio "OA"

### CABEÇOTES



**Fixação**  
Espiga Rosca 1/2" x 25 mm  
ROSCA

| Série | Ø x h        |
|-------|--------------|
| 12    | 1/2" x 25 mm |

**Fixação por Expansor**  
Espiga Rosca 1/2" x 60 mm

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO |    |    | MATERIAL DO MÓDULO |          |
|-------|------------------------|---------|----------------|--------------------|----|----|--------------------|----------|
|       | Mínimo                 | Máximo  |                | AL                 | BO | NY | AL                 | NYLON    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL                 | BO | NY | AL                 | ALUMINIO |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL                 | BO | NY | BO                 | BORRACHA |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL                 | BO | NY | NY                 | NYLON    |
| 1.3/4 | 36,5 mm                | 38,5 mm | DZETA          | AL                 | BO | NY | NY                 | NYLON    |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY

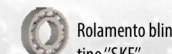
### TIPO DE MANCAL



Bucha de Nylon Grafitado



4 Buchas "Orbitais" de Nylon Grafitado



Rolamento blindado tipo "SKF"

CONSULTE A LINHA COMPLETA DOS RODÍZIOS INOX

www.rodcar.com.br

# SÉRIE 14 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 200 kg



## BORRACHA - INJETADA

| REVESTIMENTO | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | +      | + | mm    |       |    |
|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|              |            |              |              |              |              |              |              |     |     |     |    |       |        |   |       |       |    |
| BORRACHA     | R 414 BZN  | GLR 414 BZN  | FLR 414 BZN  | GRR 414 BZN  | FRR 414 BZN  | GHR 414 BZN  | FHR 414 BZN  | 110 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|              | R 414 BZL  | GLR 414 BZL  | FLR 414 BZL  | GRR 414 BZL  | FRR 414 BZL  | GHR 414 BZL  | FHR 414 BZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 414 BPNC | GLR 414 BPNC | FLR 414 BPNC | GRR 414 BPNC | FRR 414 BPNC | GHR 414 BPNC | FHR 414 BPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 414 BPKC | GLR 414 BPKC | FLR 414 BPKC | GRR 414 BPKC | FRR 414 BPKC | GHR 414 BPKC | FHR 414 BPKC |     |     |     |    |       |        | K | K15   |       |    |
|              | R 514 BZN  | GLR 514 BZN  | FLR 514 BZN  | GRR 514 BZN  | FRR 514 BZN  | GHR 514 BZN  | FHR 514 BZN  | 125 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|              | R 514 BZL  | GLR 514 BZL  | FLR 514 BZL  | GRR 514 BZL  | FRR 514 BZL  | GHR 514 BZL  | FHR 514 BZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 514 BPNC | GLR 514 BPNC | FLR 514 BPNC | GRR 514 BPNC | FRR 514 BPNC | GHR 514 BPNC | FHR 514 BPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 514 BPKC | GLR 514 BPKC | FLR 514 BPKC | GRR 514 BPKC | FRR 514 BPKC | GHR 514 BPKC | FHR 514 BPKC |     |     |     |    |       |        | K | K15   |       |    |
|              | R 614 BZN  | GLR 614 BZN  | FLR 614 BZN  | GRR 614 BZN  | FRR 614 BZN  | GHR 614 BZN  | FHR 614 BZN  | 165 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|              | R 614 BZL  | GLR 614 BZL  | FLR 614 BZL  | GRR 614 BZL  | FRR 614 BZL  | GHR 614 BZL  | FHR 614 BZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 614 BPNC | GLR 614 BPNC | FLR 614 BPNC | GRR 614 BPNC | FRR 614 BPNC | GHR 614 BPNC | FHR 614 BPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 614 BPKC | GLR 614 BPKC | FLR 614 BPKC | GRR 614 BPKC | FRR 614 BPKC | GHR 614 BPKC | FHR 614 BPKC |     |     |     |    |       |        | K | K15   |       |    |



## BORRACHA MACIÇA - LINHA BIN

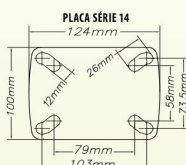
| REVESTIMENTO | REFERÊNCIA | LR          |             | RR          |             | HR          |             | KG  | mm  | mm  | mm | mm     | + | +     | mm   |    |
|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|-----|----|--------|---|-------|------|----|
|              |            |             |             |             |             |             |             |     |     |     |    |        |   |       |      |    |
| BORRACHA     | R 414 BIN  | GLR 414 BIN | FLR 414 BIN | GRR 414 BIN | FRR 414 BIN | GHR 414 BIN | FHR 414 BIN | 130 | 128 | 92  | 4" | 1.1/2" | N | 7/16" | 1/2" | 45 |
|              | R 514 BIN  | GLR 514 BIN | FLR 514 BIN | GRR 514 BIN | FRR 514 BIN | GHR 514 BIN | FHR 514 BIN | 155 | 155 | 114 | 5" |        | N | 7/16" |      |    |
|              | R 614 BIN  | GLR 614 BIN | FLR 614 BIN | GRR 614 BIN | FRR 614 BIN | GHR 614 BIN | FHR 614 BIN | 180 | 180 | 118 | 6" |        | N | 7/16" |      |    |



## BORRACHA - MOLDADA

| REVESTIMENTO       | REFERÊNCIA | LR          |             | RR          |             | HR          |             | KG  | mm  | mm  | mm | mm    | +      | + | mm    |
|--------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|-----|----|-------|--------|---|-------|
|                    |            |             |             |             |             |             |             |     |     |     |    |       |        |   |       |
| BORRACHA - MOLDADA | R 414 BFN  | GLR 414 BFN | FLR 414 BFN | GRR 414 BFN | FRR 414 BFN | GHR 414 BFN | FHR 414 BFN | 150 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" |
|                    | R 414 BFK  | GLR 414 BFK | FLR 414 BFK | GRR 414 BFK | FRR 414 BFK | GHR 414 BFK | FHR 414 BFK |     |     |     |    |       |        | K | K15   |
|                    | R 514 BFN  | GLR 514 BFN | FLR 514 BFN | GRR 514 BFN | FRR 514 BFN | GHR 514 BFN | FHR 514 BFN | 175 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |
|                    | R 514 BFK  | GLR 514 BFK | FLR 514 BFK | GRR 514 BFK | FRR 514 BFK | GHR 514 BFK | FHR 514 BFK |     |     |     |    |       |        | K | K15   |
|                    | R 614 BFN  | GLR 614 BFN | FLR 614 BFN | GRR 614 BFN | FRR 614 BFN | GHR 614 BFN | FHR 614 BFN | 200 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |
|                    | R 614 BFK  | GLR 614 BFK | FLR 614 BFK | GRR 614 BFK | FRR 614 BFK | GHR 614 BFK | FHR 614 BFK |     |     |     |    |       |        | K | K15   |

### ACESSÓRIOS



| TUBO  | Variação do Excêntrico |         | Ref do Módulo | NATUREZA DO MÓDULO | MATERIAL DO MÓDULO |
|-------|------------------------|---------|---------------|--------------------|--------------------|
|       | Mínimo                 | Máximo  |               |                    |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA          | AL BO NY           | AL ALUMÍNIO        |
| 1.3/4 | 27 mm                  | 28,5 mm | DELTA         | AL BO NY           | BO BORRACHA        |
| 1.3/2 | 35 mm                  | 37 mm   | EPSILON       | AL BO NY           | NY NYLON           |
| 1.3/8 | 36,5 mm                | 38,5 mm | DZETA         | AL BO NY           | NY NYLON           |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY

### TIPO DE MANCAL





# SÉRIE 14 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 165 kg



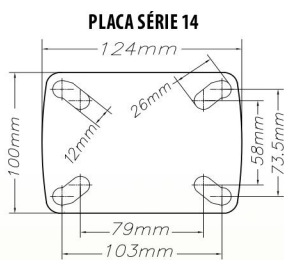
## BORRACHA TERMOPLÁSTICA - INJETADA

| REVESTIMENTO             | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | mm     | mm | mm    |
|--------------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|----|-------|
|                          |            |              |              |              |              |              |              |     |     |     |    |       |        |    |       |
| BORRACHA - TERMOPLÁSTICA | R 414 TZN  | GLR 414 TZN  | FLR 414 TZN  | GRR 414 TZN  | FRR 414 TZN  | GHR 414 TZN  | FHR 414 TZN  | 110 | 128 | 92  | 4" | 100mm | 1.1/2" | N  | 7/16" |
|                          | R 414 TZL  | GLR 414 TZL  | FLR 414 TZL  | GRR 414 TZL  | FRR 414 TZL  | GHR 414 TZL  | FHR 414 TZL  |     |     |     |    |       |        | L  | 7/16" |
|                          | R 414 TPNC | GLR 414 TPNC | FLR 414 TPNC | GRR 414 TPNC | FRR 414 TPNC | GHR 414 TPNC | FHR 414 TPNC |     |     |     |    |       |        | N  | 7/16" |
|                          | R 414 TPKC | GLR 414 TPKC | FLR 414 TPKC | GRR 414 TPKC | FRR 414 TPKC | GHR 414 TPKC | FHR 414 TPKC |     |     |     |    |       |        | K  | K15   |
|                          | R 514 TZN  | GLR 514 TZN  | FLR 514 TZN  | GRR 514 TZN  | FRR 514 TZN  | GHR 514 TZN  | FHR 514 TZN  | 125 | 155 | 114 | 5" | 125mm | 1.1/2" | N  | 7/16" |
|                          | R 514 TZL  | GLR 514 TZL  | FLR 514 TZL  | GRR 514 TZL  | FRR 514 TZL  | GHR 514 TZL  | FHR 514 TZL  |     |     |     |    |       |        | L  | 7/16" |
|                          | R 514 TPNC | GLR 514 TPNC | FLR 514 TPNC | GRR 514 TPNC | FRR 514 TPNC | GHR 514 TPNC | FHR 514 TPNC |     |     |     |    |       |        | N  | 7/16" |
|                          | R 514 TPKC | GLR 514 TPKC | FLR 514 TPKC | GRR 514 TPKC | FRR 514 TPKC | GHR 514 TPKC | FHR 514 TPKC |     |     |     |    |       |        | K  | K15   |
|                          | R 614 TZN  | GLR 614 TZN  | FLR 614 TZN  | GRR 614 TZN  | FRR 614 TZN  | GHR 614 TZN  | FHR 614 TZN  | 165 | 180 | 118 | 6" | 150mm | 1.1/2" | N  | 7/16" |
|                          | R 614 TZL  | GLR 614 TZL  | FLR 614 TZL  | GRR 614 TZL  | FRR 614 TZL  | GHR 614 TZL  | FHR 614 TZL  |     |     |     |    |       |        | L  | 7/16" |
|                          | R 614 TPNC | GLR 614 TPNC | FLR 614 TPNC | GRR 614 TPNC | FRR 614 TPNC | GHR 614 TPNC | FHR 614 TPNC |     |     |     |    |       |        | N  | 7/16" |
|                          | R 614 TPKC | GLR 614 TPKC | FLR 614 TPKC | GRR 614 TPKC | FRR 614 TPKC | GHR 614 TPKC | FHR 614 TPKC |     |     |     |    |       |        | K  | K15   |



## BORRACHA SOFT - INJETADA

| REVESTIMENTO    | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | mm     | mm | mm    |
|-----------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|----|-------|
|                 |            |              |              |              |              |              |              |     |     |     |    |       |        |    |       |
| BORRACHA - SOFT | R 414 SZN  | GLR 414 SZN  | FLR 414 SZN  | GRR 414 SZN  | FRR 414 SZN  | GHR 414 SZN  | FHR 414 SZN  | 85  | 128 | 92  | 4" | 100mm | 1.1/2" | N  | 7/16" |
|                 | R 414 SZL  | GLR 414 SZL  | FLR 414 SZL  | GRR 414 SZL  | FRR 414 SZL  | GHR 414 SZL  | FHR 414 SZL  |     |     |     |    |       |        | L  | 7/16" |
|                 | R 414 SPNC | GLR 414 SPNC | FLR 414 SPNC | GRR 414 SPNC | FRR 414 SPNC | GHR 414 SPNC | FHR 414 SPNC |     |     |     |    |       |        | N  | 7/16" |
|                 | R 414 SPKC | GLR 414 SPKC | FLR 414 SPKC | GRR 414 SPKC | FRR 414 SPKC | GHR 414 SPKC | FHR 414 SPKC |     |     |     |    |       |        | K  | K15   |
|                 | R 514 SZN  | GLR 514 SZN  | FLR 514 SZN  | GRR 514 SZN  | FRR 514 SZN  | GHR 514 SZN  | FHR 514 SZN  | 115 | 155 | 114 | 5" | 125mm | 1.1/2" | N  | 7/16" |
|                 | R 514 SZL  | GLR 514 SZL  | FLR 514 SZL  | GRR 514 SZL  | FRR 514 SZL  | GHR 514 SZL  | FHR 514 SZL  |     |     |     |    |       |        | L  | 7/16" |
|                 | R 514 SPNC | GLR 514 SPNC | FLR 514 SPNC | GRR 514 SPNC | FRR 514 SPNC | GHR 514 SPNC | FHR 514 SPNC |     |     |     |    |       |        | N  | 7/16" |
|                 | R 514 SPKC | GLR 514 SPKC | FLR 514 SPKC | GRR 514 SPKC | FRR 514 SPKC | GHR 514 SPKC | FHR 514 SPKC |     |     |     |    |       |        | K  | K15   |
|                 | R 614 SZN  | GLR 614 SZN  | FLR 614 SZN  | GRR 614 SZN  | FRR 614 SZN  | GHR 614 SZN  | FHR 614 SZN  | 125 | 180 | 118 | 6" | 150mm | 1.1/2" | N  | 7/16" |
|                 | R 614 SZL  | GLR 614 SZL  | FLR 614 SZL  | GRR 614 SZL  | FRR 614 SZL  | GHR 614 SZL  | FHR 614 SZL  |     |     |     |    |       |        | L  | 7/16" |
|                 | R 614 SPNC | GLR 614 SPNC | FLR 614 SPNC | GRR 614 SPNC | FRR 614 SPNC | GHR 614 SPNC | FHR 614 SPNC |     |     |     |    |       |        | N  | 7/16" |
|                 | R 614 SPKC | GLR 614 SPKC | FLR 614 SPKC | GRR 614 SPKC | FRR 614 SPKC | GHR 614 SPKC | FHR 614 SPKC |     |     |     |    |       |        | K  | K15   |

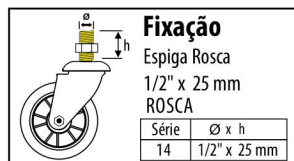
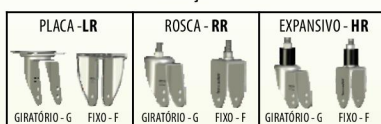


### ACESSÓRIOS



Freio "OA"

### CABEÇOTES



### TIPO DE MANCAL



| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO |    |    | MATERIAL DO MÓDULO |
|-------|------------------------|---------|----------------|--------------------|----|----|--------------------|
|       | Mínimo                 | Máximo  |                | AL                 | BO | NY |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL                 | BO | NY | AL                 |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL                 | BO | NY | AL                 |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL                 | BO | NY | BO                 |
| 1.5/8 | 36,5 mm                | 38,5 mm | DZETA          | AL                 | BO | NY | NY                 |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP **GAMA NY**

# SÉRIE 14 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 350 kg



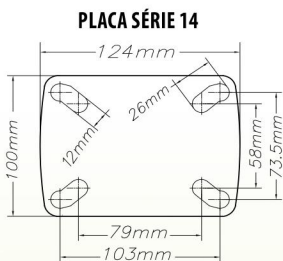
## POLIURETANO - INJETADO

| REVESTIMENTO | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | mm     | + |       | mm    |    |
|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|              |            |              |              |              |              |              |              |     |     |     |    |       |        |   |       |       |    |
| POLIURETANO  | R 414 UZN  | GLR 414 UZN  | FLR 414 UZN  | GRR 414 UZN  | FRR 414 UZN  | GHR 414 UZN  | FHR 414 UZN  | 125 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|              | R 414 UZL  | GLR 414 UZL  | FLR 414 UZL  | GRR 414 UZL  | FRR 414 UZL  | GHR 414 UZL  | FHR 414 UZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 414 UPNC | GLR 414 UPNC | FLR 414 UPNC | GRR 414 UPNC | FRR 414 UPNC | GHR 414 UPNC | FHR 414 UPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 414 UPKC | GLR 414 UPKC | FLR 414 UPKC | GRR 414 UPKC | FRR 414 UPKC | GHR 414 UPKC | FHR 414 UPKC |     |     |     |    |       |        | K | K15   |       |    |
|              | R 514 UZN  | GLR 514 UZN  | FLR 514 UZN  | GRR 514 UZN  | FRR 514 UZN  | GHR 514 UZN  | FHR 514 UZN  | 160 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|              | R 514 UZL  | GLR 514 UZL  | FLR 514 UZL  | GRR 514 UZL  | FRR 514 UZL  | GHR 514 UZL  | FHR 514 UZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 514 UPNC | GLR 514 UPNC | FLR 514 UPNC | GRR 514 UPNC | FRR 514 UPNC | GHR 514 UPNC | FHR 514 UPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 514 UPKC | GLR 514 UPKC | FLR 514 UPKC | GRR 514 UPKC | FRR 514 UPKC | GHR 514 UPKC | FHR 514 UPKC |     |     |     |    |       |        | K | K15   |       |    |
|              | R 614 UZN  | GLR 614 UZN  | FLR 614 UZN  | GRR 614 UZN  | FRR 614 UZN  | GHR 614 UZN  | FHR 614 UZN  | 170 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|              | R 614 UZL  | GLR 614 UZL  | FLR 614 UZL  | GRR 614 UZL  | FRR 614 UZL  | GHR 614 UZL  | FHR 614 UZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 614 UPNC | GLR 614 UPNC | FLR 614 UPNC | GRR 614 UPNC | FRR 614 UPNC | GHR 614 UPNC | FHR 614 UPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 614 UPKC | GLR 614 UPKC | FLR 614 UPKC | GRR 614 UPKC | FRR 614 UPKC | GHR 614 UPKC | FHR 614 UPKC |     |     |     |    |       |        | K | K15   |       |    |



## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | LR          |             | RR          |             | HR          |             | KG  | mm  | mm  | mm | mm    | mm     | + |       | mm    |    |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|                       |            |             |             |             |             |             |             |     |     |     |    |       |        |   |       |       |    |
| POLIURETANO - MOLDADO | R 414 UFN  | GLR 414 UFN | FLR 414 UFN | GRR 414 UFN | FRR 414 UFN | GHR 414 UFN | FHR 414 UFN | 250 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|                       | R 414 UFK  | GLR 414 UFK | FLR 414 UFK | GRR 414 UFK | FRR 414 UFK | GHR 414 UFK | FHR 414 UFK |     |     |     |    |       |        | K | K15   |       |    |
|                       | R 514 UFN  | GLR 514 UFN | FLR 514 UFN | GRR 514 UFN | FRR 514 UFN | GHR 514 UFN | FHR 514 UFN | 300 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|                       | R 514 UFK  | GLR 514 UFK | FLR 514 UFK | GRR 514 UFK | FRR 514 UFK | GHR 514 UFK | FHR 514 UFK |     |     |     |    |       |        | K | K15   |       |    |
|                       | R 614 UFN  | GLR 614 UFN | FLR 614 UFN | GRR 614 UFN | FRR 614 UFN | GHR 614 UFN | FHR 614 UFN | 350 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|                       | R 614 UFK  | GLR 614 UFK | FLR 614 UFK | GRR 614 UFK | FRR 614 UFK | GHR 614 UFK | FHR 614 UFK |     |     |     |    |       |        | K | K15   |       |    |

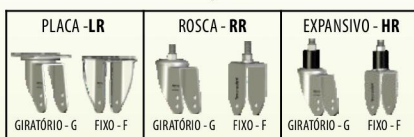


### ACESSÓRIOS



Freio "OA"

### CABEÇOTES



**Fixação**  
Espiga Rosca 1/2" x 25 mm  
ROSCA

|       |              |
|-------|--------------|
| Série | Ø x h        |
| 14    | 1/2" x 25 mm |

**Fixação por Expansor**

60mm → MÓDULO

Série 14

Espiga Rosca 1/2" x 60 mm

### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO |    |    | MATERIAL DO MÓDULO                     |
|-------|------------------------|---------|----------------|--------------------|----|----|--|
|       | Mínimo                 | Máximo  |                | AL                 | BO | NY |  |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL                 | BO | NY | AL ALUMÍNIO<br>BO BORRACHA<br>NY NYLON |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL                 | BO | NY |  |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL                 | BO | NY |  |
| 1.5/8 | 36,5 mm                | 38,5 mm | DZETA          | AL                 | BO | NY |  |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY



# SÉRIE 14 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 300 kg



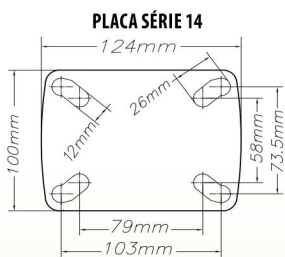
## NYLON - INJETADO

| REVESTIMENTO | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | mm     | + | +     | mm    |    |
|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|              |            |              |              |              |              |              |              |     |     |     |    |       |        |   |       |       |    |
| NYLON        | R 414 NZN  | GLR 414 NZN  | FLR 414 NZN  | GRR 414 NZN  | FRR 414 NZN  | GHR 414 NZN  | FHR 414 NZN  | 125 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|              | R 414 NZL  | GLR 414 NZL  | FLR 414 NZL  | GRR 414 NZL  | FRR 414 NZL  | GHR 414 NZL  | FHR 414 NZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 414 NPNC | GLR 414 NPNC | FLR 414 NPNC | GRR 414 NPNC | FRR 414 NPNC | GHR 414 NPNC | FHR 414 NPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 414 NPKC | GLR 414 NPKC | FLR 414 NPKC | GRR 414 NPKC | FRR 414 NPKC | GHR 414 NPKC | FHR 414 NPKC |     |     |     |    |       |        | K | K15   |       |    |
|              | R 514 NZN  | GLR 514 NZN  | FLR 514 NZN  | GRR 514 NZN  | FRR 514 NZN  | GHR 514 NZN  | FHR 514 NZN  | 160 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|              | R 514 NZL  | GLR 514 NZL  | FLR 514 NZL  | GRR 514 NZL  | FRR 514 NZL  | GHR 514 NZL  | FHR 514 NZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 514 NPNC | GLR 514 NPNC | FLR 514 NPNC | GRR 514 NPNC | FRR 514 NPNC | GHR 514 NPNC | FHR 514 NPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 514 NPKC | GLR 514 NPKC | FLR 514 NPKC | GRR 514 NPKC | FRR 514 NPKC | GHR 514 NPKC | FHR 514 NPKC |     |     |     |    |       |        | K | K15   |       |    |
|              | R 614 NZN  | GLR 614 NZN  | FLR 614 NZN  | GRR 614 NZN  | FRR 614 NZN  | GHR 614 NZN  | FHR 614 NZN  | 170 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|              | R 614 NZL  | GLR 614 NZL  | FLR 614 NZL  | GRR 614 NZL  | FRR 614 NZL  | GHR 614 NZL  | FHR 614 NZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|              | R 614 NPNC | GLR 614 NPNC | FLR 614 NPNC | GRR 614 NPNC | FRR 614 NPNC | GHR 614 NPNC | FHR 614 NPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|              | R 614 NPKC | GLR 614 NPKC | FLR 614 NPKC | GRR 614 NPKC | FRR 614 NPKC | GHR 614 NPKC | FHR 614 NPKC |     |     |     |    |       |        | K | K15   |       |    |



## NYLON INJETADO - INTEGRAL

| REVESTIMENTO     | REFERÊNCIA | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | mm     | + | +     | mm    |    |
|------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|                  |            |              |              |              |              |              |              |     |     |     |    |       |        |   |       |       |    |
| NYLON - INTEGRAL | R 414 NNZN | GLR 414 NNZN | FLR 414 NNZN | GRR 414 NNZN | FRR 414 NNZN | GHR 414 NNZN | FHR 414 NNZN | 200 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|                  | R 414 NNZL | GLR 414 NNZL | FLR 414 NNZL | GRR 414 NNZL | FRR 414 NNZL | GHR 414 NNZL | FHR 414 NNZL |     |     |     |    |       |        | L | 7/16" |       |    |
|                  | R 414 NNNC | GLR 414 NNNC | FLR 414 NNNC | GRR 414 NNNC | FRR 414 NNNC | GHR 414 NNNC | FHR 414 NNNC |     |     |     |    |       |        | N | 7/16" |       |    |
|                  | R 414 NNKC | GLR 414 NNKC | FLR 414 NNKC | GRR 414 NNKC | FRR 414 NNKC | GHR 414 NNKC | FHR 414 NNKC |     |     |     |    |       |        | K | K15   |       |    |
|                  | R 514 NNZN | GLR 514 NNZN | FLR 514 NNZN | GRR 514 NNZN | FRR 514 NNZN | GHR 514 NNZN | FHR 514 NNZN | 250 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|                  | R 514 NNZL | GLR 514 NNZL | FLR 514 NNZL | GRR 514 NNZL | FRR 514 NNZL | GHR 514 NNZL | FHR 514 NNZL |     |     |     |    |       |        | L | 7/16" |       |    |
|                  | R 514 NNNC | GLR 514 NNNC | FLR 514 NNNC | GRR 514 NNNC | FRR 514 NNNC | GHR 514 NNNC | FHR 514 NNNC |     |     |     |    |       |        | N | 7/16" |       |    |
|                  | R 514 NNKC | GLR 514 NNKC | FLR 514 NNKC | GRR 514 NNKC | FRR 514 NNKC | GHR 514 NNKC | FHR 514 NNKC |     |     |     |    |       |        | K | K15   |       |    |
|                  | R 614 NNZN | GLR 614 NNZN | FLR 614 NNZN | GRR 614 NNZN | FRR 614 NNZN | GHR 614 NNZN | FHR 614 NNZN | 300 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|                  | R 614 NNZL | GLR 614 NNZL | FLR 614 NNZL | GRR 614 NNZL | FRR 614 NNZL | GHR 614 NNZL | FHR 614 NNZL |     |     |     |    |       |        | L | 7/16" |       |    |
|                  | R 614 NNNC | GLR 614 NNNC | FLR 614 NNNC | GRR 614 NNNC | FRR 614 NNNC | GHR 614 NNNC | FHR 614 NNNC |     |     |     |    |       |        | N | 7/16" |       |    |
|                  | R 614 NNKC | GLR 614 NNKC | FLR 614 NNKC | GRR 614 NNKC | FRR 614 NNKC | GHR 614 NNKC | FHR 614 NNKC |     |     |     |    |       |        | K | K15   |       |    |



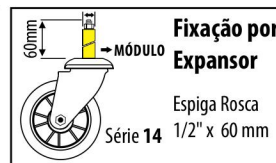
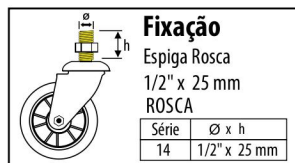
CABEÇOTES



### ACESSÓRIOS



Freio "OA"



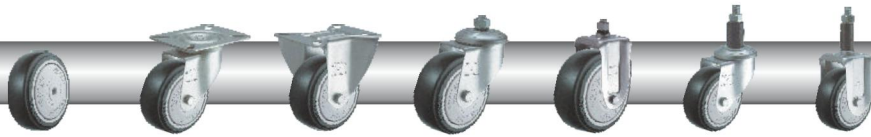
### TIPO DE MANCAL



| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO |    |    | MATERIAL DO MÓDULO |
|-------|------------------------|---------|----------------|--------------------|----|----|--------------------|
|       | Mínimo                 | Máximo  |                | AL                 | BO | NY |                    |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL                 | BO | NY |                    |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL                 | BO | NY | AL ALUMÍNIO        |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL                 | BO | NY | BO BORRACHA        |
| 1.5/8 | 36,5 mm                | 38,5 mm | DZETA          | AL                 | BO | NY | NY NYLON           |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP **GAMA NY**

# SÉRIE 14 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 350 kg



## POLIPROPILENO - INJETADO

| REVESTIMENTO  | REFERÊNCIA        | LR           |              | RR           |              | HR           |              | KG  | mm  | mm  | mm | mm    | mm     | + | +     | mm    |    |
|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|               |                   |              |              |              |              |              |              |     |     |     |    |       |        |   |       |       |    |
| POLIPROPILENO | <b>R 414 PZN</b>  | GLR 414 PZN  | FLR 414 PZN  | GRR 414 PZN  | FRR 414 PZN  | GHR 414 PZN  | FHR 414 PZN  | 115 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|               | <b>R 414 PZL</b>  | GLR 414 PZL  | FLR 414 PZL  | GRR 414 PZL  | FRR 414 PZL  | GHR 414 PZL  | FHR 414 PZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|               | <b>R 414 PPNC</b> | GLR 414 PPNC | FLR 414 PPNC | GRR 414 PPNC | FRR 414 PPNC | GHR 414 PPNC | FHR 414 PPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|               | <b>R 414 PPKC</b> | GLR 414 PPKC | FLR 414 PPKC | GRR 414 PPKC | FRR 414 PPKC | GHR 414 PPKC | FHR 414 PPKC |     |     |     |    |       |        | K | K15   |       |    |
|               | <b>R 514 PZN</b>  | GLR 514 PZN  | FLR 514 PZN  | GRR 514 PZN  | FRR 514 PZN  | GHR 514 PZN  | FHR 514 PZN  | 150 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|               | <b>R 514 PZL</b>  | GLR 514 PZL  | FLR 514 PZL  | GRR 514 PZL  | FRR 514 PZL  | GHR 514 PZL  | FHR 514 PZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|               | <b>R 514 PPNC</b> | GLR 514 PPNC | FLR 514 PPNC | GRR 514 PPNC | FRR 514 PPNC | GHR 514 PPNC | FHR 514 PPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|               | <b>R 514 PPKC</b> | GLR 514 PPKC | FLR 514 PPKC | GRR 514 PPKC | FRR 514 PPKC | GHR 514 PPKC | FHR 514 PPKC |     |     |     |    |       |        | K | K15   |       |    |
|               | <b>R 614 PZN</b>  | GLR 614 PZN  | FLR 614 PZN  | GRR 614 PZN  | FRR 614 PZN  | GHR 614 PZN  | FHR 614 PZN  | 160 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|               | <b>R 614 PZL</b>  | GLR 614 PZL  | FLR 614 PZL  | GRR 614 PZL  | FRR 614 PZL  | GHR 614 PZL  | FHR 614 PZL  |     |     |     |    |       |        | L | 7/16" |       |    |
|               | <b>R 614 PPNC</b> | GLR 614 PPNC | FLR 614 PPNC | GRR 614 PPNC | FRR 614 PPNC | GHR 614 PPNC | FHR 614 PPNC |     |     |     |    |       |        | N | 7/16" |       |    |
|               | <b>R 614 PPKC</b> | GLR 614 PPKC | FLR 614 PPKC | GRR 614 PPKC | FRR 614 PPKC | GHR 614 PPKC | FHR 614 PPKC |     |     |     |    |       |        | K | K15   |       |    |



## CELERON

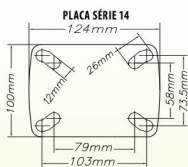
| REVESTIMENTO | REFERÊNCIA     | LR        |           | RR        |           | HR        |           | KG  | mm  | mm  | mm | mm    | mm     | + | +     | mm    |    |
|--------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|              |                |           |           |           |           |           |           |     |     |     |    |       |        |   |       |       |    |
| CELERON      | <b>R 414 C</b> | GLR 414 C | FLR 414 C | GRR 414 C | FRR 414 C | GHR 414 C | FHR 414 C | 200 | 128 | 92  | 4" | 100mm | 1.1/2" |   | 7/16" | 7/16" | 49 |
|              | <b>R 514 C</b> | GLR 514 C | FLR 514 C | GRR 514 C | FRR 514 C | GHR 514 C | FHR 514 C | 250 | 155 | 114 | 5" | 125mm |        |   | 7/16" |       |    |
|              | <b>R 614 C</b> | GLR 614 C | FLR 614 C | GRR 614 C | FRR 614 C | GHR 614 C | FHR 614 C | 350 | 180 | 118 | 6" | 150mm |        |   | 7/16" |       |    |



## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA      | LR         |            | RR         |            | HR         |            | KG  | mm  | mm  | mm | mm    | mm     | + | +     | mm    |    |
|--------------|-----------------|------------|------------|------------|------------|------------|------------|-----|-----|-----|----|-------|--------|---|-------|-------|----|
|              |                 |            |            |            |            |            |            |     |     |     |    |       |        |   |       |       |    |
| FERRO        | <b>R 414 FN</b> | GLR 414 FN | FLR 414 FN | GRR 414 FN | FRR 414 FN | GHR 414 FN | FHR 414 FN | 250 | 128 | 92  | 4" | 100mm | 1.1/2" | N | 7/16" | 7/16" | 49 |
|              | <b>R 414 FK</b> | GLR 414 FK | FLR 414 FK | GRR 414 FK | FRR 414 FK | GHR 414 FK | FHR 414 FK |     |     |     |    |       |        | K | K15   |       |    |
|              | <b>R 514 FN</b> | GLR 514 FN | FLR 514 FN | GRR 514 FN | FRR 514 FN | GHR 514 FN | FHR 514 FN | 300 | 155 | 114 | 5" | 125mm | 1.1/2" | N | 7/16" |       |    |
|              | <b>R 514 FK</b> | GLR 514 FK | FLR 514 FK | GRR 514 FK | FRR 514 FK | GHR 514 FK | FHR 514 FK |     |     |     |    |       |        | K | K15   |       |    |
|              | <b>R 614 FN</b> | GLR 614 FN | FLR 614 FN | GRR 614 FN | FRR 614 FN | GHR 614 FN | FHR 614 FN | 350 | 180 | 118 | 6" | 150mm | 1.1/2" | N | 7/16" |       |    |
|              | <b>R 614 FK</b> | GLR 614 FK | FLR 614 FK | GRR 614 FK | FRR 614 FK | GHR 614 FK | FHR 614 FK |     |     |     |    |       |        | K | K15   |       |    |

### ACESSÓRIOS



| TUBO   | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO | MATERIAL DO MÓDULO |
|--------|------------------------|---------|----------------|--------------------|--------------------|
|        | Mínimo                 | Máximo  |                |                    |                    |
| 1      | 21 mm                  | 22,5 mm | GAMA           | AL BO NY           | AL ALLUMINIO       |
| 1. 1/2 | 27 mm                  | 28,5 mm | DELTA          | AL BO NY           | BO BORRACHA NYLON  |
| 1. 3/4 | 35 mm                  | 37 mm   | EPSILON        | AL BO NY           | BO BORRACHA NYLON  |
| 1. 3/4 | 36,5 mm                | 38,5 mm | DZETA          | AL BO NY           | BO BORRACHA NYLON  |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY

### TIPO DE MANCAL





# SÉRIE 14 - LINHA INOX - CARGAS DE ATÉ 210 kg



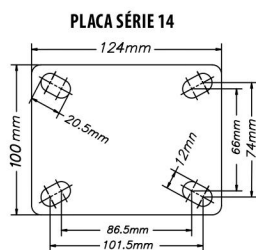
## BORRACHA INJETADA - INOX

| REVESTIMENTO | REFERÊNCIA |               |               |               |               |               |               | kg | mm  | mm  |    |       |        |   |  |       | mm    |    |
|--------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|----|-----|-----|----|-------|--------|---|--|-------|-------|----|
|              |            | LRX           |               | RRX           |               | HRX           |               |    |     |     |    |       |        |   |  |       |       |    |
| BORRACHA     | R 414 BZN  | GLRX 414 BZN  | FLRX 414 BZN  | GRRX 414 BZN  | FRRX 414 BZN  | GHRX 414 BZN  | FHRX 414 BZN  | 60 | 128 | 92  | 4" | 100mm | 1.1/2" | N |  | 7/16" | 7/16" | 49 |
|              | R 414 BZL  | GLRX 414 BZL  | FLRX 414 BZL  | GRRX 414 BZL  | FRRX 414 BZL  | GHRX 414 BZL  | FHRX 414 BZL  |    |     |     |    |       |        | L |  | 7/16" |       |    |
|              | R 414 BPNC | GLRX 414 BPNC | FLRX 414 BPNC | GRRX 414 BPNC | FRRX 414 BPNC | GHRX 414 BPNC | FHRX 414 BPNC |    |     |     |    |       |        | N |  | 7/16" |       |    |
|              | R 414 BPKC | GLRX 414 BPKC | FLRX 414 BPKC | GRRX 414 BPKC | FRRX 414 BPKC | GHRX 414 BPKC | FHRX 414 BPKC |    |     |     |    |       |        | K |  | K15   |       |    |
|              | R 514 BZN  | GLRX 514 BZN  | FLRX 514 BZN  | GRRX 514 BZN  | FRRX 514 BZN  | GHRX 514 BZN  | FHRX 514 BZN  | 80 | 160 | 114 | 5" | 125mm | 1.1/2" | N |  | 7/16" |       |    |
|              | R 514 BZL  | GLRX 514 BZL  | FLRX 514 BZL  | GRRX 514 BZL  | FRRX 514 BZL  | GHRX 514 BZL  | FHRX 514 BZL  |    |     |     |    |       |        | L |  | 7/16" |       |    |
|              | R 514 BPNC | GLRX 514 BPNC | FLRX 514 BPNC | GRRX 514 BPNC | FRRX 514 BPNC | GHRX 514 BPNC | FHRX 514 BPNC |    |     |     |    |       |        | N |  | 7/16" |       |    |
|              | R 514 BPKC | GLRX 514 BPKC | FLRX 514 BPKC | GRRX 514 BPKC | FRRX 514 BPKC | GHRX 514 BPKC | FHRX 514 BPKC |    |     |     |    |       |        | K |  | K15   |       |    |
|              | R 614 BZN  | GLRX 614 BZN  | FLRX 614 BZN  | GRRX 614 BZN  | FRRX 614 BZN  | GHRX 614 BZN  | FHRX 614 BZN  | 90 | 180 | 118 | 6" | 150mm | 1.1/2" | N |  | 7/16" |       |    |
|              | R 614 BZL  | GLRX 614 BZL  | FLRX 614 BZL  | GRRX 614 BZL  | FRRX 614 BZL  | GHRX 614 BZL  | FHRX 614 BZL  |    |     |     |    |       |        | L |  | 7/16" |       |    |
|              | R 614 BPNC | GLRX 614 BPNC | FLRX 614 BPNC | GRRX 614 BPNC | FRRX 614 BPNC | GHRX 614 BPNC | FHRX 614 BPNC |    |     |     |    |       |        | N |  | 7/16" |       |    |
|              | R 614 BPKC | GLRX 614 BPKC | FLRX 614 BPKC | GRRX 614 BPKC | FRRX 614 BPKC | GHRX 614 BPKC | FHRX 614 BPKC |    |     |     |    |       |        | K |  | K15   |       |    |



## NYLON INJETADO INTEGRAL - INOX

| REVESTIMENTO     | REFERÊNCIA |               |               |               |               |               |               | kg  | mm  | mm  |    |       |        |   |  |       | mm    |    |
|------------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|-----|-----|----|-------|--------|---|--|-------|-------|----|
|                  |            | LRX           |               | RRX           |               | HRX           |               |     |     |     |    |       |        |   |  |       |       |    |
| NYLON - INTEGRAL | R 414 NNZN | GLRX 414 NNZN | FLRX 414 NNZN | GRRX 414 NNZN | FRRX 414 NNZN | GHRX 414 NNZN | FHRX 414 NNZN | 140 | 128 | 92  | 4" | 100mm | 1.1/2" | N |  | 7/16" | 7/16" | 49 |
|                  | R 414 NNZL | GLRX 414 NNZL | FLRX 414 NNZL | GRRX 414 NNZL | FRRX 414 NNZL | GHRX 414 NNZL | FHRX 414 NNZL |     |     |     |    |       |        | L |  | 7/16" |       |    |
|                  | R 414 NNNC | GLRX 414 NNNC | FLRX 414 NNNC | GRRX 414 NNNC | FRRX 414 NNNC | GHRX 414 NNNC | FHRX 414 NNNC |     |     |     |    |       |        | N |  | 7/16" |       |    |
|                  | R 414 NNKC | GLRX 414 NNKC | FLRX 414 NNKC | GRRX 414 NNKC | FRRX 414 NNKC | GHRX 414 NNKC | FHRX 414 NNKC |     |     |     |    |       |        | K |  | K15   |       |    |
|                  | R 514 NNZN | GLRX 514 NNZN | FLRX 514 NNZN | GRRX 514 NNZN | FRRX 514 NNZN | GHRX 514 NNZN | FHRX 514 NNZN | 175 | 160 | 114 | 5" | 125mm | 1.1/2" | N |  | 7/16" |       |    |
|                  | R 514 NNZL | GLRX 514 NNZL | FLRX 514 NNZL | GRRX 514 NNZL | FRRX 514 NNZL | GHRX 514 NNZL | FHRX 514 NNZL |     |     |     |    |       |        | L |  | 7/16" |       |    |
|                  | R 514 NNNC | GLRX 514 NNNC | FLRX 514 NNNC | GRRX 514 NNNC | FRRX 514 NNNC | GHRX 514 NNNC | FHRX 514 NNNC |     |     |     |    |       |        | N |  | 7/16" |       |    |
|                  | R 514 NNKC | GLRX 514 NNKC | FLRX 514 NNKC | GRRX 514 NNKC | FRRX 514 NNKC | GHRX 514 NNKC | FHRX 514 NNKC |     |     |     |    |       |        | K |  | K15   |       |    |
|                  | R 614 NNZN | GLRX 614 NNZN | FLRX 614 NNZN | GRRX 614 NNZN | FRRX 614 NNZN | GHRX 614 NNZN | FHRX 614 NNZN | 210 | 180 | 118 | 6" | 150mm | 1.1/2" | N |  | 7/16" |       |    |
|                  | R 614 NNZL | GLRX 614 NNZL | FLRX 614 NNZL | GRRX 614 NNZL | FRRX 614 NNZL | GHRX 614 NNZL | FHRX 614 NNZL |     |     |     |    |       |        | L |  | 7/16" |       |    |
|                  | R 614 NNNC | GLRX 614 NNNC | FLRX 614 NNNC | GRRX 614 NNNC | FRRX 614 NNNC | GHRX 614 NNNC | FHRX 614 NNNC |     |     |     |    |       |        | N |  | 7/16" |       |    |
|                  | R 614 NNKC | GLRX 614 NNKC | FLRX 614 NNKC | GRRX 614 NNKC | FRRX 614 NNKC | GHRX 614 NNKC | FHRX 614 NNKC |     |     |     |    |       |        | K |  | K15   |       |    |



### ACESSÓRIOS



### CABEÇOTES



**Fixação**  
Espiga Rosca  
1/2" x 25 mm  
ROSCA

| Série | Ø x h        |
|-------|--------------|
| 14    | 1/2" x 25 mm |



**Fixação por Expansor**  
Espiga Rosca  
1/2" x 60 mm

| TUBO  | Variação do Excêntrico |         | Ref. do Módulo | NATUREZA DO MÓDULO |    |    | MATERIAL DO MÓDULO                     |
|-------|------------------------|---------|----------------|--------------------|----|----|--|
|       | Mínimo                 | Máximo  |                | AL                 | BO | NY |  |
| 1     | 21 mm                  | 22,5 mm | GAMA           | AL                 | BO | NY | AL ALUMÍNIO<br>BO BORRACHA<br>NY NYLON |
| 1.1/4 | 27 mm                  | 28,5 mm | DELTA          | AL                 | BO | NY |  |
| 1.1/2 | 35 mm                  | 37 mm   | EPSILON        | AL                 | BO | NY |  |
| 1.5/8 | 36,5 mm                | 38,5 mm | DZETA          | AL                 | BO | NY |  |

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP **GAMA NY**

### TIPO DE MANCAL



Bucha de Nylon Grafitado



4 Buchas "Orbitais" de Nylon Grafitado



Rolamentos de Roletes



Rolamento blindado tipo "SKF"



## BORRACHA - INJETADA

| REVESTIMENTO | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|              |            |              |              |     |     |     |             |        |    | N | L     | K     |    |    |
| BORRACHA     | R 414 BZN  | GIR 414 BZN  | FIR 414 BZN  | 110 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|              | R 414 BZL  | GIR 414 BZL  | FIR 414 BZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 414 BPNC | GIR 414 BPNC | FIR 414 BPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 414 BPKC | GIR 414 BPKC | FIR 414 BPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 514 BZN  | GIR 514 BZN  | FIR 514 BZN  | 125 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 514 BZL  | GIR 514 BZL  | FIR 514 BZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 514 BPNC | GIR 514 BPNC | FIR 514 BPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 514 BPKC | GIR 514 BPKC | FIR 514 BPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 614 BZN  | GIR 614 BZN  | FIR 614 BZN  | 165 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 614 BZL  | GIR 614 BZL  | FIR 614 BZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 614 BPNC | GIR 614 BPNC | FIR 614 BPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 614 BPKC | GIR 614 BPKC | FIR 614 BPKC |     |     |     |             |        | K  |   | K15   |       |    |    |



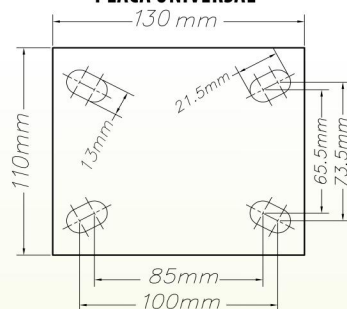
## BORRACHA - MOLDADA

| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|              |            |             |             |     |     |     |             |        |    | N | L     | K     |    |    |
| BORRACHA     | R 414 BFN  | GIR 414 BFN | FIR 414 BFN | 150 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|              | R 414 BFK  | GIR 414 BFK | FIR 414 BFK |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 514 BFN  | GIR 514 BFN | FIR 514 BFN | 175 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 514 BFK  | GIR 514 BFK | FIR 514 BFK |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 614 BFN  | GIR 614 BFN | FIR 614 BFN | 200 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 614 BFK  | GIR 614 BFK | FIR 614 BFK |     |     |     |             |        | K  |   | K15   |       |    |    |

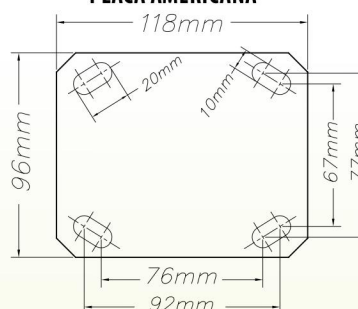
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA AMERICANA



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"



# SÉRIE 14 - LINHA - IR - CARGAS DE ATÉ 165 kg



## BORRACHA TERMOPLÁSTICA - INJETADA

| REVESTIMENTO | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|              |            |              |              |     |     |     |             |        |    | N | L     | K     |    |    |
| BORRACHA     | R 414 TZN  | GIR 414 TZN  | FIR 414 TZN  | 110 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|              | R 414 TZL  | GIR 414 TZL  | FIR 414 TZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 414 TPNC | GIR 414 TPNC | FIR 414 TPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 414 TPKC | GIR 414 TPKC | FIR 414 TPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 514 TZN  | GIR 514 TZN  | FIR 514 TZN  | 125 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 514 TZL  | GIR 514 TZL  | FIR 514 TZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 514 TPNC | GIR 514 TPNC | FIR 514 TPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 514 TPKC | GIR 514 TPKC | FIR 514 TPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 614 TZN  | GIR 614 TZN  | FIR 614 TZN  | 165 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 614 TZL  | GIR 614 TZL  | FIR 614 TZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 614 TPNC | GIR 614 TPNC | FIR 614 TPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 614 TPKC | GIR 614 TPKC | FIR 614 TPKC |     |     |     |             |        | K  |   | K15   |       |    |    |



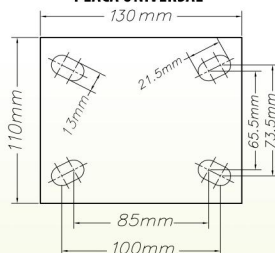
## BORRACHA SOFT - INJETADA

| REVESTIMENTO | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|              |            |              |              |     |     |     |             |        |    | N | L     | K     |    |    |
| BORRACHA     | R 414 SZN  | GIR 414 SZN  | FIR 414 SZN  | 85  | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|              | R 414 SZL  | GIR 414 SZL  | FIR 414 SZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 414 SPNC | GIR 414 SPNC | FIR 414 SPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 414 SPKC | GIR 414 SPKC | FIR 414 SPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 514 SZN  | GIR 514 SZN  | FIR 514 SZN  | 115 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 514 SZL  | GIR 514 SZL  | FIR 514 SZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 514 SPNC | GIR 514 SPNC | FIR 514 SPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 514 SPKC | GIR 514 SPKC | FIR 514 SPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 614 SZN  | GIR 614 SZN  | FIR 614 SZN  | 125 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 614 SZL  | GIR 614 SZL  | FIR 614 SZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 614 SPNC | GIR 614 SPNC | FIR 614 SPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 614 SPKC | GIR 614 SPKC | FIR 614 SPKC |     |     |     |             |        | K  |   | K15   |       |    |    |

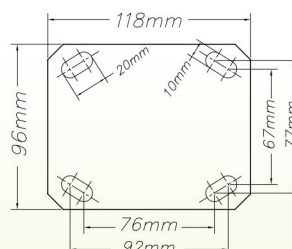
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA AMERICANA



### TIPO DE MANCAL



Bucha de Nylon Grafitado



Rolamento de Roletas



4 Buchas "Orbitais" de Nylon Grafitado



Rolamento blindado tipo "SKF"

# SÉRIE 14 - LINHA - IR - CARGAS DE ATÉ 400 kg



## POLIURETANO - INJETADO

| REVESTIMENTO | REFERÊNCIA | IR           |              | KG  | mm  | mm  | mm          | mm     | mm | + |       |       | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|              |            |              |              |     |     |     |             |        |    |   |       |       |    |
| POLIURETANO  | R 414 UZN  | GIR 414 UZN  | FIR 414 UZN  | 125 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |
|              | R 414 UZL  | GIR 414 UZL  | FIR 414 UZL  |     |     |     |             |        | L  |   | 7/16" |       |    |
|              | R 414 UPNC | GIR 414 UPNC | FIR 414 UPNC |     |     |     |             |        | N  |   | 7/16" |       |    |
|              | R 414 UPKC | GIR 414 UPKC | FIR 414 UPKC |     |     |     |             |        | K  |   | K15   |       |    |
|              | R 514 UZN  | GIR 514 UZN  | FIR 514 UZN  | 160 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |
|              | R 514 UZL  | GIR 514 UZL  | FIR 514 UZL  |     |     |     |             |        | L  |   | 7/16" |       |    |
|              | R 514 UPNC | GIR 514 UPNC | FIR 514 UPNC |     |     |     |             |        | N  |   | 7/16" |       |    |
|              | R 514 UPKC | GIR 514 UPKC | FIR 514 UPKC |     |     |     |             |        | K  |   | K15   |       |    |
|              | R 614 UZN  | GIR 614 UZN  | FIR 614 UZN  | 170 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |
|              | R 614 UZL  | GIR 614 UZL  | FIR 614 UZL  |     |     |     |             |        | L  |   | 7/16" |       |    |
|              | R 614 UPNC | GIR 614 UPNC | FIR 614 UPNC |     |     |     |             |        | N  |   | 7/16" |       |    |
|              | R 614 UPKC | GIR 614 UPKC | FIR 614 UPKC |     |     |     |             |        | K  |   | K15   |       |    |



## POLIURETANO MOLDADO - ALUMÍNIO - 80 SHORE A

| REVESTIMENTO | REFERÊNCIA | IR          |             | KG  | mm  | mm  | mm | mm     | mm | + |     |       | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|----|--------|----|---|-----|-------|----|
|              |            |             |             |     |     |     |    |        |    |   |     |       |    |
| POLIURETANO  | R 514 UAK  | GIR 514 UAK | FIR 514 UAK | 400 | 162 | 104 | 5" | 1.1/2" | K  |   | K15 | 7/16" | 49 |



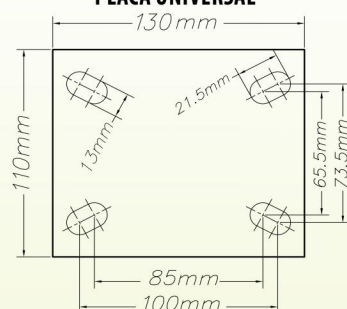
## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | IR          |             | KG  | mm  | mm  | mm          | mm     | mm | + |       |       | mm |
|-----------------------|------------|-------------|-------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|                       |            |             |             |     |     |     |             |        |    |   |       |       |    |
| POLIURETANO - MOLDADO | R 414 UFN  | GIR 414 UFN | FIR 414 UFN | 350 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |
|                       | R 414 UFK  | GIR 414 UFK | FIR 414 UFK |     |     |     |             |        | K  |   | K15   |       |    |
|                       | R 514 UFN  | GIR 514 UFN | FIR 514 UFN | 400 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |
|                       | R 514 UFK  | GIR 514 UFK | FIR 514 UFK |     |     |     |             |        | K  |   | K15   |       |    |
|                       | R 614 UFN  | GIR 614 UFN | FIR 614 UFN | 400 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |
|                       | R 614 UFK  | GIR 614 UFK | FIR 614 UFK |     |     |     |             |        | K  |   | K15   |       |    |

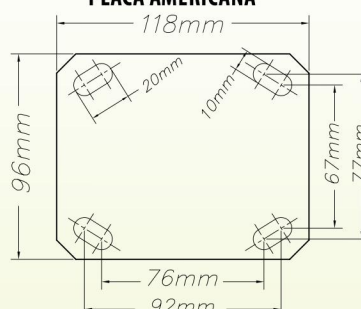
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA AMERICANA



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- 4 Buchas "Orbitais" de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"





## NYLON - INJETADO

| REVESTIMENTO | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|              |            |              |              |     |     |     |             |        |    | N | L     | K     |    |    |
| NYLON        | R 414 NZN  | GIR 414 NZN  | FIR 414 NZN  | 125 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|              | R 414 NZL  | GIR 414 NZL  | FIR 414 NZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 414 NPNC | GIR 414 NPNC | FIR 414 NPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 414 NPKC | GIR 414 NPKC | FIR 414 NPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 514 NZN  | GIR 514 NZN  | FIR 514 NZN  | 160 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 514 NZL  | GIR 514 NZL  | FIR 514 NZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 514 NPNC | GIR 514 NPNC | FIR 514 NPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 514 NPKC | GIR 514 NPKC | FIR 514 NPKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 614 NZN  | GIR 614 NZN  | FIR 614 NZN  | 170 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 614 NZL  | GIR 614 NZL  | FIR 614 NZL  |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 614 NPNC | GIR 614 NPNC | FIR 614 NPNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 614 NPKC | GIR 614 NPKC | FIR 614 NPKC |     |     |     |             |        | K  |   | K15   |       |    |    |



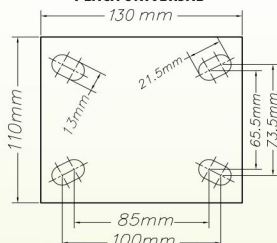
## NYLON INJETADO - INTEGRAL

| REVESTIMENTO     | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|------------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|                  |            |              |              |     |     |     |             |        |    | N | L     | K     |    |    |
| NYLON - INTEGRAL | R 414 NNZN | GIR 414 NNZN | FIR 414 NNZN | 200 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|                  | R 414 NNZL | GIR 414 NNZL | FIR 414 NNZL |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|                  | R 414 NNNC | GIR 414 NNNC | FIR 414 NNNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|                  | R 414 NNKC | GIR 414 NNKC | FIR 414 NNKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|                  | R 514 NNZN | GIR 514 NNZN | FIR 514 NNZN | 250 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|                  | R 514 NNZL | GIR 514 NNZL | FIR 514 NNZL |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|                  | R 514 NNNC | GIR 514 NNNC | FIR 514 NNNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|                  | R 514 NNKC | GIR 514 NNKC | FIR 514 NNKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|                  | R 614 NNZN | GIR 614 NNZN | FIR 614 NNZN | 300 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|                  | R 614 NNZL | GIR 614 NNZL | FIR 614 NNZL |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|                  | R 614 NNNC | GIR 614 NNNC | FIR 614 NNNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|                  | R 614 NNKC | GIR 614 NNKC | FIR 614 NNKC |     |     |     |             |        | K  |   | K15   |       |    |    |

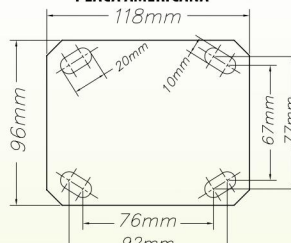
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA AMERICANA



### TIPO DE MANCAL



# SÉRIE 14 - LINHA - IR - CARGAS DE ATÉ 350 kg



## POLIPROPILENO - INJETADO



| REVESTIMENTO  | REFERÊNCIA | IR           |              | KG  | mm  | mm  | mm          | mm     | mm | + |       |       | mm |
|---------------|------------|--------------|--------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|               |            |              |              |     |     |     |             |        |    |   |       |       |    |
| POLIPROPILENO | R 414 PZN  | GIR 414 PZN  | FIR 414 PZN  | 115 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |
|               | R 414 PZL  | GIR 414 PZL  | FIR 414 PZL  |     |     |     |             |        | L  |   | 7/16" |       |    |
|               | R 414 PPNC | GIR 414 PPNC | FIR 414 PPNC |     |     |     |             |        | N  |   | 7/16" |       |    |
|               | R 414 PPKC | GIR 414 PPKC | FIR 414 PPKC |     |     |     |             |        | K  |   | K15   |       |    |
|               | R 514 PZN  | GIR 514 PZN  | FIR 514 PZN  | 150 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |
|               | R 514 PZL  | GIR 514 PZL  | FIR 514 PZL  |     |     |     |             |        | L  |   | 7/16" |       |    |
|               | R 514 PPNC | GIR 514 PPNC | FIR 514 PPNC |     |     |     |             |        | N  |   | 7/16" |       |    |
|               | R 514 PPKC | GIR 514 PPKC | FIR 514 PPKC |     |     |     |             |        | K  |   | K15   |       |    |
|               | R 614 PZN  | GIR 614 PZN  | FIR 614 PZN  | 160 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |
|               | R 614 PZL  | GIR 614 PZL  | FIR 614 PZL  |     |     |     |             |        | L  |   | 7/16" |       |    |
|               | R 614 PPNC | GIR 614 PPNC | FIR 614 PPNC |     |     |     |             |        | N  |   | 7/16" |       |    |
|               | R 614 PPKC | GIR 614 PPKC | FIR 614 PPKC |     |     |     |             |        | K  |   | K15   |       |    |



## CELERON

| REVESTIMENTO | REFERÊNCIA | IR        |           | KG  | mm  | mm  | mm          | mm     | mm | + |       |       | mm |
|--------------|------------|-----------|-----------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|              |            |           |           |     |     |     |             |        |    |   |       |       |    |
| CELERON      | R 414 C    | GIR 414 C | FIR 414 C | 200 | 130 | 94  | 4"<br>100mm | 1.1/2" |    |   | 7/16" | 7/16" | 49 |
|              | R 514 C    | GIR 514 C | FIR 514 C | 250 | 162 | 104 | 5"<br>100mm |        |    |   | 7/16" |       |    |
|              | R 614 C    | GIR 614 C | FIR 614 C | 300 | 184 | 116 | 6"<br>100mm |        |    |   | 7/16" |       |    |



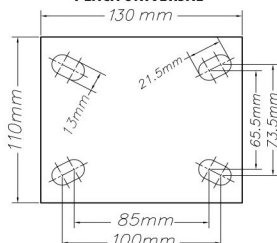
## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA | IR         |            | KG  | mm  | mm  | mm          | mm     | mm | + |       |       | mm |
|--------------|------------|------------|------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|
|              |            |            |            |     |     |     |             |        |    |   |       |       |    |
| FERRO        | R 414 FN   | GIR 414 FN | FIR 414 FN | 250 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |
|              | R 414 FK   | GIR 414 FK | FIR 414 FK |     |     |     |             |        | K  |   | K15   |       |    |
|              | R 514 FN   | GIR 514 FN | FIR 514 FN | 300 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |
|              | R 514 FK   | GIR 514 FK | FIR 514 FK |     |     |     |             |        | K  |   | K15   |       |    |
|              | R 614 FN   | GIR 614 FN | FIR 614 FN | 350 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |
|              | R 614 FK   | GIR 614 FK | FIR 614 FK |     |     |     |             |        | K  |   | K15   |       |    |

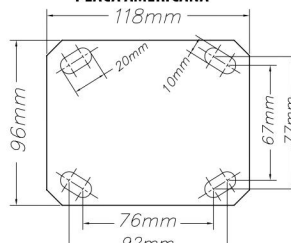
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA AMERICANA



### TIPO DE MANCAL







## BORRACHA INJETADA - INOX

| REVESTIMENTO | REFERÊNCIA | IRX           |               | kg | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|--------------|------------|---------------|---------------|----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|              |            |               |               |    |     |     |             |        |    |   |       |       |    |    |
| BORRACHA     | R 414 BZN  | GIRX 414 BZN  | FIRX 414 BZN  | 60 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|              | R 414 BZL  | GIRX 414 BZL  | FIRX 414 BZL  |    |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 414 BPNC | GIRX 414 BPNC | FIRX 414 BPNC |    |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 414 BPKC | GIRX 414 BPKC | FIRX 414 BPKC |    |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 514 BZN  | GIRX 514 BZN  | FIRX 514 BZN  | 80 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 514 BZL  | GIRX 514 BZL  | FIRX 514 BZL  |    |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 514 BPNC | GIRX 514 BPNC | FIRX 514 BPNC |    |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 514 BPKC | GIRX 514 BPKC | FIRX 514 BPKC |    |     |     |             |        | K  |   | K15   |       |    |    |
|              | R 614 BZN  | GIRX 614 BZN  | FIRX 614 BZN  | 90 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|              | R 614 BZL  | GIRX 614 BZL  | FIRX 614 BZL  |    |     |     |             |        | L  |   | 7/16" |       |    |    |
|              | R 614 BPNC | GIRX 614 BPNC | FIRX 614 BPNC |    |     |     |             |        | N  |   | 7/16" |       |    |    |
|              | R 614 BPKC | GIRX 614 BPKC | FIRX 614 BPKC |    |     |     |             |        | K  |   | K15   |       |    |    |



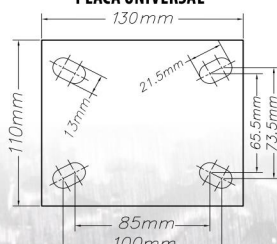
## NYLON INJETADO INTEGRAL - INOX

| REVESTIMENTO     | REFERÊNCIA | IRX           |               | kg  | mm  | mm  | mm          | mm     | mm | + |       |       | +  | mm |
|------------------|------------|---------------|---------------|-----|-----|-----|-------------|--------|----|---|-------|-------|----|----|
|                  |            |               |               |     |     |     |             |        |    |   |       |       |    |    |
| NYLON - INTEGRAL | R 414 NNZN | GIRX 414 NNZN | FIRX 414 NNZN | 140 | 130 | 94  | 4"<br>100mm | 1.1/2" | N  |   | 7/16" | 7/16" | 49 |    |
|                  | R 414 NNZL | GIRX 414 NNZL | FIRX 414 NNZL |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|                  | R 414 NNNC | GIRX 414 NNNC | FIRX 414 NNNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|                  | R 414 NNKC | GIRX 414 NNKC | FIRX 414 NNKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|                  | R 514 NNZN | GIRX 514 NNZN | FIRX 514 NNZN | 175 | 162 | 104 | 5"<br>125mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|                  | R 514 NNZL | GIRX 514 NNZL | FIRX 514 NNZL |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|                  | R 514 NNNC | GIRX 514 NNNC | FIRX 514 NNNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|                  | R 514 NNKC | GIRX 514 NNKC | FIRX 514 NNKC |     |     |     |             |        | K  |   | K15   |       |    |    |
|                  | R 614 NNZN | GIRX 614 NNZN | FIRX 614 NNZN | 210 | 184 | 116 | 6"<br>150mm | 1.1/2" | N  |   | 7/16" |       |    |    |
|                  | R 614 NNZL | GIRX 614 NNZL | FIRX 614 NNZL |     |     |     |             |        | L  |   | 7/16" |       |    |    |
|                  | R 614 NNNC | GIRX 614 NNNC | FIRX 614 NNNC |     |     |     |             |        | N  |   | 7/16" |       |    |    |
|                  | R 614 NNKC | GIRX 614 NNKC | FIRX 614 NNKC |     |     |     |             |        | K  |   | K15   |       |    |    |

### ACESSÓRIOS



### PLACA UNIVERSAL



### TIPO DE MANCAL



Bucha de Nylon Grafitado



Rolamento de Roletas



4 Buchas "Orbitais" de Nylon Grafitado



Rolamento blindado tipo "SKF"



## BORRACHA - INJETADA

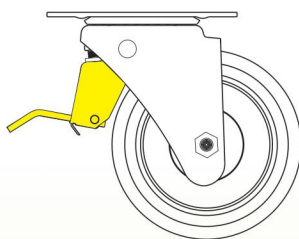
| REVESTIMENTO    | REFERÊNCIA           | IR              |                 | kg  | mm  | mm  | mm           | mm     | + |  |      | mm   |    |
|-----------------|----------------------|-----------------|-----------------|-----|-----|-----|--------------|--------|---|--|------|------|----|
|                 |                      |                 |                 |     |     |     |              |        |   |  |      |      |    |
| <b>BORRACHA</b> | <b>R 816E - BPN</b>  | GIR 816E - BPN  | FIR 816E - BPN  | 175 | 245 | 154 | 8"<br>200mm  | 1.5/8" | N |  | 7/8" | 5/8" | 62 |
|                 | <b>R 816E - BPL</b>  | GIR 816E - BPL  | FIR 816E - BPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|                 | <b>R 816E - BPK</b>  | GIR 816E - BPK  | FIR 816E - BPK  |     |     |     |              |        | K |  | K20  |      |    |
|                 | <b>R 1016E - BPN</b> | GIR 1016E - BPN | FIR 1016E - BPN | 250 | 280 | 186 | 10"<br>250mm | 1.5/8" | N |  | 7/8" |      |    |
|                 | <b>R 1016E - BPL</b> | GIR 1016E - BPL | FIR 1016E - BPL |     |     |     |              |        | L |  | 7/8" |      |    |
|                 | <b>R 1016E - BPK</b> | GIR 1016E - BPK | FIR 1016E - BPK |     |     |     |              |        | K |  | K20  |      |    |



## BORRACHA SOFT - INJETADA

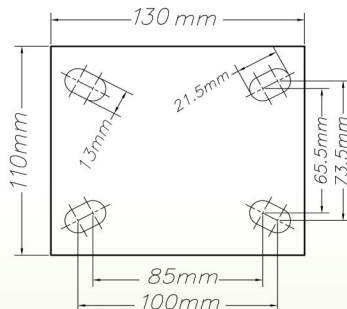
| REVESTIMENTO | REFERÊNCIA           | IR              |                 | kg  | mm  | mm  | mm           | mm     | + |  |      | mm   |    |
|--------------|----------------------|-----------------|-----------------|-----|-----|-----|--------------|--------|---|--|------|------|----|
|              |                      |                 |                 |     |     |     |              |        |   |  |      |      |    |
| <b>SOFT</b>  | <b>R 816E - SPN</b>  | GIR 816E - SPN  | FIR 816E - SPN  | 150 | 245 | 154 | 8"<br>200mm  | 1.5/8" | N |  | 7/8" | 5/8" | 62 |
|              | <b>R 816E - SPL</b>  | GIR 816E - SPL  | FIR 816E - SPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | <b>R 816E - SPK</b>  | GIR 816E - SPK  | FIR 816E - SPK  |     |     |     |              |        | K |  | K20  |      |    |
|              | <b>R 1016E - SPN</b> | GIR 1016E - SPN | FIR 1016E - SPN | 215 | 280 | 186 | 10"<br>250mm | 1.5/8" | N |  | 7/8" |      |    |
|              | <b>R 1016E - SPL</b> | GIR 1016E - SPL | FIR 1016E - SPL |     |     |     |              |        | L |  | 7/8" |      |    |
|              | <b>R 1016E - SPK</b> | GIR 1016E - SPK | FIR 1016E - SPK |     |     |     |              |        | K |  | K20  |      |    |

### ACESSÓRIOS

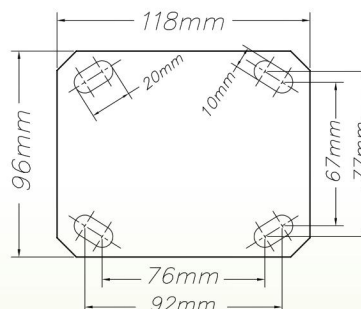


Freio "OA"

### PLACA UNIVERSAL



### PLACA AMERICANA



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"



# SÉRIE 16 - LINHA - IR - CARGAS DE ATÉ 300 kg



## BORRACHA - INJETADA

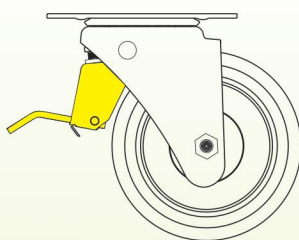
| REVESTIMENTO | REFERÊNCIA   | IR             |                | kg  | mm  | mm  | mm           | mm     | + |  |      | mm   | mm |
|--------------|--------------|----------------|----------------|-----|-----|-----|--------------|--------|---|--|------|------|----|
|              |              |                |                |     |     |     |              |        |   |  |      |      |    |
| BORRACHA     | R 816 - BPN  | GIR 816 - BPN  | FIR 816 - BPN  | 200 | 245 | 154 | 8"<br>200mm  | 1.3/4" | N |  | 7/8" | 5/8" | 62 |
|              | R 816 - BPL  | GIR 816 - BPL  | FIR 816 - BPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 816 - BPK  | GIR 816 - BPK  | FIR 816 - BPK  |     |     |     |              |        | K |  | K20  |      |    |
|              | R 916 - BPN  | GIR 916 - BPN  | FIR 916 - BPN  | 250 | 280 | 176 | 9"<br>225mm  | 1.3/4" | N |  | 7/8" |      |    |
|              | R 916 - BPL  | GIR 916 - BPL  | FIR 916 - BPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 916 - BPK  | GIR 916 - BPK  | FIR 916 - BPK  |     |     |     |              |        | K |  | K20  |      |    |
|              | R 1016 - BPN | GIR 1016 - BPN | FIR 1016 - BPN | 300 | 285 | 186 | 10"<br>250mm | 1.3/4" | N |  | 7/8" |      |    |
|              | R 1016 - BPL | GIR 1016 - BPL | FIR 1016 - BPL |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 1016 - BPK | GIR 1016 - BPK | FIR 1016 - BPK |     |     |     |              |        | K |  | K20  |      |    |



## BORRACHA SOFT - INJETADA

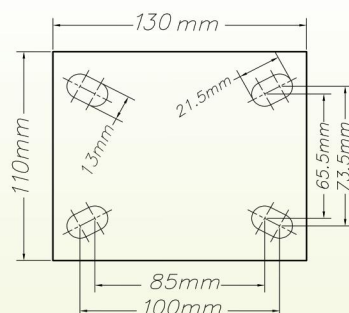
| REVESTIMENTO | REFERÊNCIA   | IR             |                | kg  | mm  | mm  | mm           | mm     | + |  |      | mm   | mm |
|--------------|--------------|----------------|----------------|-----|-----|-----|--------------|--------|---|--|------|------|----|
|              |              |                |                |     |     |     |              |        |   |  |      |      |    |
| BORRACHA     | R 816 - SPN  | GIR 816 - SPN  | FIR 816 - SPN  | 175 | 245 | 154 | 8"<br>200mm  | 1.3/4" | N |  | 7/8" | 5/8" | 62 |
|              | R 816 - SPL  | GIR 816 - SPL  | FIR 816 - SPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 816 - SPK  | GIR 816 - SPK  | FIR 816 - SPK  |     |     |     |              |        | K |  | K20  |      |    |
|              | R 916 - SPN  | GIR 916 - SPN  | FIR 916 - SPN  | 200 | 280 | 176 | 9"<br>225mm  | 1.3/4" | N |  | 7/8" |      |    |
|              | R 916 - SPL  | GIR 916 - SPL  | FIR 916 - SPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 916 - SPK  | GIR 916 - SPK  | FIR 916 - SPK  |     |     |     |              |        | K |  | K20  |      |    |
|              | R 1016 - SPN | GIR 1016 - SPN | FIR 1016 - SPN | 250 | 285 | 186 | 10"<br>250mm | 1.3/4" | N |  | 7/8" |      |    |
|              | R 1016 - SPL | GIR 1016 - SPL | FIR 1016 - SPL |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 1016 - SPK | GIR 1016 - SPK | FIR 1016 - SPK |     |     |     |              |        | K |  | K20  |      |    |

### ACESSÓRIOS

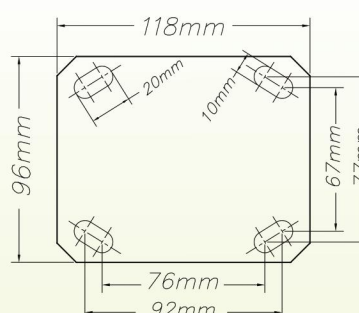


Freio "OA"

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### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"



## BORRACHA INJETADA SÉRIE E - INOX

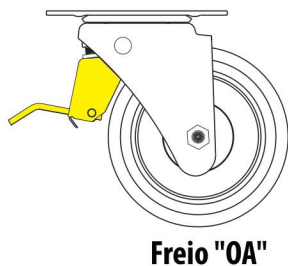
| REVESTIMENTO | REFERÊNCIA    | IRX              |                  | kg  | mm  | mm  | mm           | mm     | + |  |      | +    | mm |
|--------------|---------------|------------------|------------------|-----|-----|-----|--------------|--------|---|--|------|------|----|
|              |               |                  |                  |     |     |     |              |        |   |  |      |      |    |
| BORRACHA     | R 816E - BPN  | GIRX 816E - BPN  | FIRX 816E - BPN  | 125 | 245 | 154 | 8"<br>200mm  | 1.5/8" | N |  | 7/8" | 5/8" | 62 |
|              | R 816E - BPL  | GIRX 816E - BPL  | FIRX 816E - BPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 816E - BPK  | GIRX 816E - BPK  | FIRX 816E - BPK  |     |     |     |              |        | K |  | K20" |      |    |
|              | R 1016E - BPN | GIRX 1016E - BPN | FIRX 1016E - BPN | 175 | 280 | 186 | 10"<br>250mm | 1.5/8" | N |  | 7/8" |      |    |
|              | R 1016E - BPL | GIRX 1016E - BPL | FIRX 1016E - BPL |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 1016E - BPK | GIRX 1016E - BPK | FIRX 1016E - BPK |     |     |     |              |        | K |  | K20" |      |    |



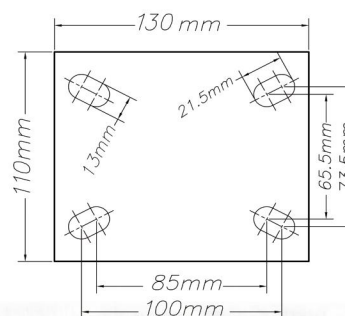
## BORRACHA INJETADA - INOX

| REVESTIMENTO | REFERÊNCIA   | IRX             |                 | kg  | mm  | mm  | mm           | mm     | + |  |      | +    | mm |
|--------------|--------------|-----------------|-----------------|-----|-----|-----|--------------|--------|---|--|------|------|----|
|              |              |                 |                 |     |     |     |              |        |   |  |      |      |    |
| BORRACHA     | R 816 - BPN  | GIRX 816 - BPN  | FIRX 816 - BPN  | 140 | 245 | 154 | 8"<br>200mm  | 1.3/4" | N |  | 7/8" | 5/8" | 62 |
|              | R 816 - BPL  | GIRX 816 - BPL  | FIRX 816 - BPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 816 - BPK  | GIRX 816 - BPK  | FIRX 816 - BPK  |     |     |     |              |        | K |  | K20" |      |    |
|              | R 916 - BPN  | GIRX 916 - BPN  | FIRX 916 - BPN  | 175 | 280 | 176 | 9"<br>225mm  | 1.3/4" | N |  | 7/8" |      |    |
|              | R 916 - BPL  | GIRX 916 - BPL  | FIRX 916 - BPL  |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 916 - BPK  | GIRX 916 - BPK  | FIRX 916 - BPK  |     |     |     |              |        | K |  | K20" |      |    |
|              | R 1016 - BPN | GIRX 1016 - BPN | FIRX 1016 - BPN | 210 | 285 | 186 | 10"<br>250mm | 1.3/4" | N |  | 7/8" |      |    |
|              | R 1016 - BPL | GIRX 1016 - BPL | FIRX 1016 - BPL |     |     |     |              |        | L |  | 7/8" |      |    |
|              | R 1016 - BPK | GIRX 1016 - BPK | FIRX 1016 - BPK |     |     |     |              |        | K |  | K20" |      |    |

### ACESSÓRIOS



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### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"





## BORRACHA - INJETADA

| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 BPN   | GIR 52 BPN  | FIR 52 BPN  | 200 | 166 | 107 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|              | R 52 BPL   | GIR 52 BPL  | FIR 52 BPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 52 BPK   | GIR 52 BPK  | FIR 52 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 BPN   | GIR 62 BPN  | FIR 62 BPN  | 250 | 191 | 122 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|              | R 62 BPL   | GIR 62 BPL  | FIR 62 BPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 62 BPK   | GIR 62 BPK  | FIR 62 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 BPN   | GIR 82 BPN  | FIR 82 BPN  | 300 | 248 | 154 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 82 BPL   | GIR 82 BPL  | FIR 82 BPL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 82 BPK   | GIR 82 BPK  | FIR 82 BPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 BPN  | GIR 102 BPN | FIR 102 BPN | 350 | 287 | 186 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 102 BPL  | GIR 102 BPL | FIR 102 BPL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 102 BPK  | GIR 102 BPK | FIR 102 BPK |     |     |     |              |    | K |   | K20  |      |    |



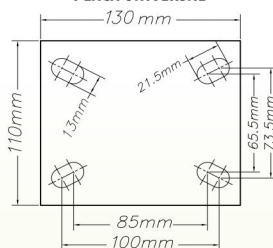
## BORRACHA - MOLDADA

| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 BFN   | GIR 52 BFN  | FIR 52 BFN  | 200 | 166 | 107 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|              | R 52 BFK   | GIR 52 BFK  | FIR 52 BFK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 BFN   | GIR 62 BFN  | FIR 62 BFN  | 250 | 191 | 122 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|              | R 62 BFK   | GIR 62 BFK  | FIR 62 BFK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 BFK   | GIR 82 BFK  | FIR 82 BFK  | 300 | 245 | 154 | 8"<br>200mm  | 2" | K |   | K20  | 5/8" |    |
|              | R 102 BFK  | GIR 102 BFK | FIR 102 BFK | 350 | 287 | 186 | 10"<br>250mm | 2" | K |   | K20  |      |    |

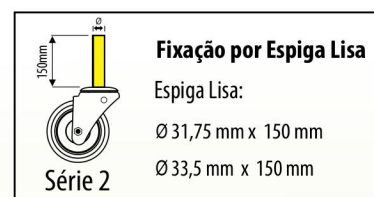
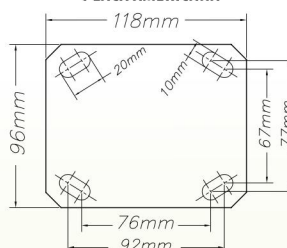
### ACESSÓRIOS



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### TIPO DE MANCAL



# SÉRIE 2 - LINHA - IR - CARGAS DE ATÉ 370 kg



## BORRACHA TERMOPLÁSTICA - INJETADA

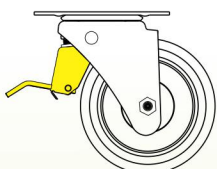
| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 TPN   | GIR 52 TPN  | FIR 52 TPN  | 220 | 166 | 107 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 TPL   | GIR 52 TPL  | FIR 52 TPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 TPK   | GIR 52 TPK  | FIR 52 TPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 TPN   | GIR 62 TPN  | FIR 62 TPN  | 270 | 191 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|              | R 62 TPL   | GIR 62 TPL  | FIR 62 TPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 TPK   | GIR 62 TPK  | FIR 62 TPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 TPN   | GIR 82 TPN  | FIR 82 TPN  | 320 | 248 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 TPL   | GIR 82 TPL  | FIR 82 TPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 TPK   | GIR 82 TPK  | FIR 82 TPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 TPN  | GIR 102 TPN | FIR 102 TPN | 370 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|              | R 102 TPL  | GIR 102 TPL | FIR 102 TPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 TPK  | GIR 102 TPK | FIR 102 TPK |     |     |     |              |    | K |   | K20  |      |    |



## BORRACHA SOFT - INJETADA

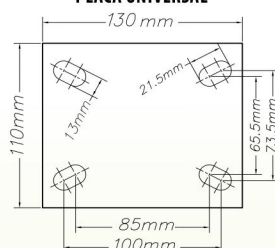
| REVESTIMENTO    | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|-----------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                 |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA - SOFT | R 52 SPN   | GIR 52 SPN  | FIR 52 SPN  | 220 | 166 | 107 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                 | R 52 SPL   | GIR 52 SPL  | FIR 52 SPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                 | R 52 SPK   | GIR 52 SPK  | FIR 52 SPK  |     |     |     |              |    | K |   | K15  |      |    |
|                 | R 62 SPN   | GIR 62 SPN  | FIR 62 SPN  | 270 | 191 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|                 | R 62 SPL   | GIR 62 SPL  | FIR 62 SPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                 | R 62 SPK   | GIR 62 SPK  | FIR 62 SPK  |     |     |     |              |    | K |   | K15  |      |    |
|                 | R 82 SPN   | GIR 82 SPN  | FIR 82 SPN  | 320 | 248 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                 | R 82 SPL   | GIR 82 SPL  | FIR 82 SPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|                 | R 82 SPK   | GIR 82 SPK  | FIR 82 SPK  |     |     |     |              |    | K |   | K20  |      |    |
|                 | R 102 SPN  | GIR 102 SPN | FIR 102 SPN | 370 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|                 | R 102 SPL  | GIR 102 SPL | FIR 102 SPL |     |     |     |              |    | L | — | 7/8" |      |    |
|                 | R 102 SPK  | GIR 102 SPK | FIR 102 SPK |     |     |     |              |    | K |   | K20  |      |    |

### ACESSÓRIOS

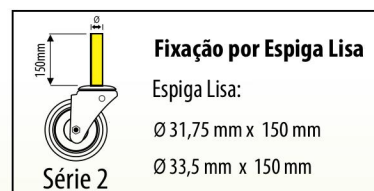
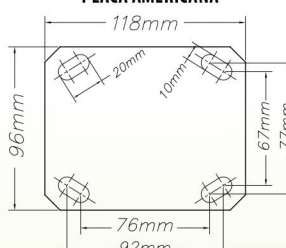


Freio "OA"

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### TIPO DE MANCAL





# SÉRIE 2 - LINHA - IR - CARGAS DE ATÉ 600 kg



## POLIURETANO - INJETADO

| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |  |      | mm   |    |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|--|------|------|----|
|              |            |             |             |     |     |     |              |    |   |  |      |      |    |
| POLIURETANO  | R 52 UPN   | GIR 52 UPN  | FIR 52 UPN  | 350 | 166 | 107 | 5"<br>125mm  | 2" | N |  | 5/8" | 1/2" | 62 |
|              | R 52 UPL   | GIR 52 UPL  | FIR 52 UPL  |     |     |     |              |    | L |  | 5/8" |      |    |
|              | R 52 UPK   | GIR 52 UPK  | FIR 52 UPK  |     |     |     |              |    | K |  | K15  |      |    |
|              | R 62 UPN   | GIR 62 UPN  | FIR 62 UPN  | 400 | 191 | 122 | 6"<br>150mm  | 2" | N |  | 5/8" | 1/2" |    |
|              | R 62 UPL   | GIR 62 UPL  | FIR 62 UPL  |     |     |     |              |    | L |  | 5/8" |      |    |
|              | R 62 UPK   | GIR 62 UPK  | FIR 62 UPK  |     |     |     |              |    | K |  | K15  |      |    |
|              | R 82 UPN   | GIR 82 UPN  | FIR 82 UPN  | 500 | 248 | 154 | 8"<br>200mm  | 2" | N |  | 7/8" | 5/8" |    |
|              | R 82 UPL   | GIR 82 UPL  | FIR 82 UPL  |     |     |     |              |    | L |  | 7/8" |      |    |
|              | R 82 UPK   | GIR 82 UPK  | FIR 82 UPK  |     |     |     |              |    | K |  | K20  |      |    |
|              | R 102 UPN  | GIR 102 UPN | FIR 102 UPN | 600 | 287 | 186 | 10"<br>250mm | 2" | N |  | 7/8" | 5/8" |    |
|              | R 102 UPL  | GIR 102 UPL | FIR 102 UPL |     |     |     |              |    | L |  | 7/8" |      |    |
|              | R 102 UPK  | GIR 102 UPK | FIR 102 UPK |     |     |     |              |    | K |  | K20  |      |    |



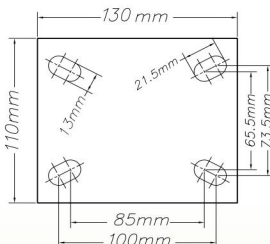
## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |  |      | mm   |    |
|-----------------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|--|------|------|----|
|                       |            |             |             |     |     |     |              |    |   |  |      |      |    |
| POLIURETANO - MOLDADO | R 42 UFK   | GIR 42 UFK  | FIR 42 UFK  | 400 | 137 | 90  | 4"<br>100mm  | 2" | K |  | K15  | 1/2" | 62 |
|                       | R 52 UFN   | GIR 52 UFN  | FIR 52 UFN  | 400 | 163 | 107 | 5"<br>125mm  | 2" | N |  | 5/8" |      |    |
|                       | R 52 UFK   | GIR 52 UFK  | FIR 52 UFK  |     |     |     |              |    | K |  | K15  |      |    |
|                       | R 62 UFN   | GIR 62 UFN  | FIR 62 UFN  | 450 | 188 | 122 | 6"<br>150mm  | 2" | N |  | 5/8" | 1/2" |    |
|                       | R 62 UFK   | GIR 62 UFK  | FIR 62 UFK  |     |     |     |              |    | K |  | K15  |      |    |
|                       | R 82 UFK   | GIR 82 UFK  | FIR 82 UFK  | 500 | 245 | 154 | 8"<br>200mm  | 2" | K |  | K20  | 5/8" |    |
|                       | R 102 UFK  | GIR 102 UFK | FIR 102 UFK | 600 | 287 | 186 | 10"<br>250mm | 2" | K |  | K20  |      |    |

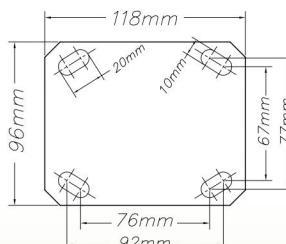
### ACESSÓRIOS



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**Fixação por Espiga Lisa**

Espiga Lisa:  
 Ø 31,75 mm x 150 mm  
 Ø 33,5 mm x 150 mm

Série 2

### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA - IR - CARGAS DE ATÉ 600 kg



## POLIURETANO MOLDADO - NYLON

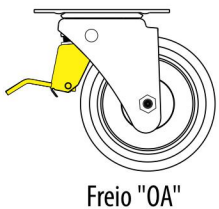
| REVESTIMENTO          | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm           | mm | + |  |      | +    | mm |
|-----------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|--|------|------|----|
|                       |            |              |              |     |     |     |              |    |   |  |      |      |    |
| POLIURETANO - MOLDADO | R 52 UNNM  | GIR 52 UNNM  | FIR 52 UNNM  | 350 | 163 | 107 | 5"<br>125mm  | 2" | N |  | 5/8" | 1/2" | 62 |
|                       | R 52 UNLM  | GIR 52 UNLM  | FIR 52 UNLM  |     |     |     |              |    | L |  | 5/8" |      |    |
|                       | R 52 UNKM  | GIR 52 UNKM  | FIR 52 UNKM  |     |     |     |              |    | K |  | K15  |      |    |
|                       | R 62 UNNM  | GIR 62 UNNM  | FIR 62 UNNM  | 400 | 188 | 122 | 6"<br>150mm  | 2" | N |  | 5/8" |      |    |
|                       | R 62 UNLM  | GIR 62 UNLM  | FIR 62 UNLM  |     |     |     |              |    | L |  | 5/8" |      |    |
|                       | R 62 UNKM  | GIR 62 UNKM  | FIR 62 UNKM  |     |     |     |              |    | K |  | K15  |      |    |
|                       | R 82 UNNM  | GIR 82 UNNM  | FIR 82 UNNM  | 500 | 245 | 154 | 8"<br>200mm  | 2" | N |  | 7/8" | 5/8" |    |
|                       | R 82 UNLM  | GIR 82 UNLM  | FIR 82 UNLM  |     |     |     |              |    | L |  | 7/8" |      |    |
|                       | R 82 UNKM  | GIR 82 UNKM  | FIR 82 UNKM  |     |     |     |              |    | K |  | K20  |      |    |
|                       | R 102 UNNM | GIR 102 UNNM | FIR 102 UNNM | 600 | 287 | 186 | 10"<br>250mm | 2" | N |  | 7/8" | 5/8" |    |
|                       | R 102 UNLM | GIR 102 UNLM | FIR 102 UNLM |     |     |     |              |    | L |  | 7/8" |      |    |
|                       | R 102 UNKM | GIR 102 UNKM | FIR 102 UNKM |     |     |     |              |    | K |  | K20  |      |    |



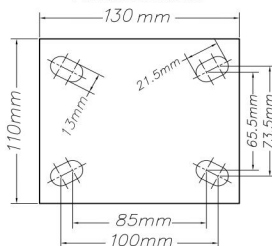
## NYLON COM FIBRA DE VIDRO

| REVESTIMENTO             | REFERÊNCIA | IR           |              | kg  | mm  | mm  | mm           | mm | + |  |      | +    | mm |
|--------------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|--|------|------|----|
|                          |            |              |              |     |     |     |              |    |   |  |      |      |    |
| NYLON COM FIBRA DE VIDRO | R 52 NNVN  | GIR 52 NNVN  | FIR 52 NNVN  | 350 | 166 | 107 | 5"<br>125mm  | 2" | N |  | 5/8" | 1/2" | 62 |
|                          | R 52 NNVK  | GIR 52 NNVK  | FIR 52 NNVK  |     |     |     |              |    | K |  | K15  |      |    |
|                          | R 62 NNVN  | GIR 62 NNVN  | FIR 62 NNVN  | 400 | 191 | 122 | 6"<br>150mm  | 2" | N |  | 5/8" |      |    |
|                          | R 62 NNVK  | GIR 62 NNVK  | FIR 62 NNVK  |     |     |     |              |    | K |  | K15  |      |    |
|                          | R 82 NNVN  | GIR 82 NNVN  | FIR 82 NNVN  | 500 | 248 | 154 | 8"<br>200mm  | 2" | N |  | 7/8" | 5/8" |    |
|                          | R 82 NNVK  | GIR 82 NNVK  | FIR 82 NNVK  |     |     |     |              |    | K |  | K20  |      |    |
|                          | R 102 NNVN | GIR 102 NNVN | FIR 102 NNVN | 600 | 287 | 186 | 10"<br>250mm | 2" | N |  | 7/8" | 5/8" |    |
|                          | R 102 NNVK | GIR 102 NNVK | FIR 102 NNVK |     |     |     |              |    | K |  | K20  |      |    |

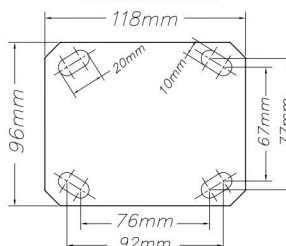
### ACESSÓRIOS



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**Fixação por Espiga Lisa**  
Espiga Lisa:  
Ø 31,75 mm x 150 mm  
Ø 33,5 mm x 150 mm

Série 2

### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKE"



# SÉRIE 2 - LINHA - IR - CARGAS DE ATÉ 600 kg



## POLIURETANO MOLDADO - ROUND - 60 SHORE D

| REVESTIMENTO              | REFERÊNCIA  | IR            |               | KG  | mm  | mm  | mm           | mm | + | + | +   | mm   |    |
|---------------------------|-------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|-----|------|----|
|                           |             |               |               |     |     |     |              |    |   |   |     |      |    |
| POLIURETANO MOLDADO ROUND | R 52 UFKRV  | GIR 52 UFKRV  | FIR 52 UFKRV  | 350 | 163 | 107 | 5"<br>125mm  | 2" | K |   | K15 | 1/2" | 62 |
|                           | R 62 UFKRV  | GIR 62 UFKRV  | FIR 62 UFKRV  | 400 | 188 | 122 | 6"<br>150mm  | 2" | K |   | K15 |      |    |
|                           | R 82 UFKRV  | GIR 82 UFKRV  | FIR 82 UFKRV  | 500 | 245 | 154 | 8"<br>200mm  | 2" | K |   | K20 | 5/8" |    |
|                           | R 102 UFKRV | GIR 102 UFKRV | FIR 102 UFKRV | 600 | 287 | 186 | 10"<br>250mm | 2" | K |   | K20 |      |    |



## POLIURETANO MOLDADO - ROUND - 90 SHORE A

| REVESTIMENTO              | REFERÊNCIA  | IR            |               | KG  | mm  | mm  | mm           | mm | + | + | +   | mm   |    |
|---------------------------|-------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|-----|------|----|
|                           |             |               |               |     |     |     |              |    |   |   |     |      |    |
| POLIURETANO MOLDADO ROUND | R 52 UFKRA  | GIR 52 UFKRA  | FIR 52 UFKRA  | 350 | 163 | 107 | 5"<br>125mm  | 2" | K |   | K15 | 1/2" | 62 |
|                           | R 62 UFKRA  | GIR 62 UFKRA  | FIR 62 UFKRA  | 400 | 188 | 122 | 6"<br>150mm  | 2" | K |   | K15 |      |    |
|                           | R 82 UFKRA  | GIR 82 UFKRA  | FIR 82 UFKRA  | 500 | 245 | 154 | 8"<br>200mm  | 2" | K |   | K20 | 5/8" |    |
|                           | R 102 UFKRA | GIR 102 UFKRA | FIR 102 UFKRA | 600 | 287 | 186 | 10"<br>250mm | 2" | K |   | K20 |      |    |



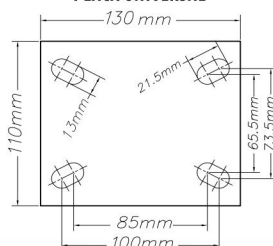
## POLIURETANO MOLDADO - ALUMÍNIO - 80 SHORE A

| REVESTIMENTO | REFERÊNCIA | IR         |            | KG  | mm  | mm  | mm          | mm | + | + | +   | mm   |    |
|--------------|------------|------------|------------|-----|-----|-----|-------------|----|---|---|-----|------|----|
|              |            |            |            |     |     |     |             |    |   |   |     |      |    |
| POLIURETANO  | R 52 UAK   | GIR 52 UAK | FIR 52 UAK | 350 | 166 | 107 | 5"<br>125mm | 2" | K |   | K15 | 1/2" | 62 |
|              | R 62 UAK   | GIR 62 UAK | FIR 62 UAK | 400 | 191 | 122 | 6"<br>150mm | 2" | K |   | K15 |      |    |
|              | R 82 UAK   | GIR 82 UAK | FIR 82 UAK | 500 | 248 | 154 | 8"<br>200mm | 2" | K |   | K20 | 5/8" |    |

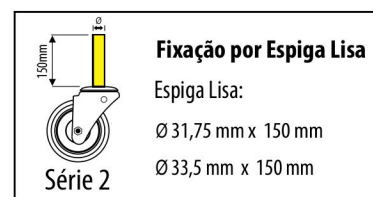
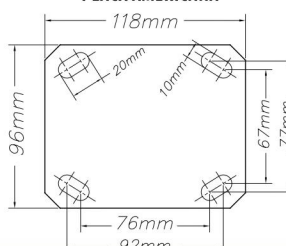
### ACESSÓRIOS



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### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA - IR - CARGAS DE ATÉ 600 kg



## NYLON - INJETADO

| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| NYLON        | R 52 NPN   | GIR 52 NPN  | FIR 52 NPN  | 350 | 166 | 107 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|              | R 52 NPL   | GIR 52 NPL  | FIR 52 NPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 52 NPK   | GIR 52 NPK  | FIR 52 NPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 NPN   | GIR 62 NPN  | FIR 62 NPN  | 400 | 191 | 122 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|              | R 62 NPL   | GIR 62 NPL  | FIR 62 NPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 62 NPK   | GIR 62 NPK  | FIR 62 NPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 NPN   | GIR 82 NPN  | FIR 82 NPN  | 500 | 248 | 154 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 82 NPL   | GIR 82 NPL  | FIR 82 NPL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 82 NPK   | GIR 82 NPK  | FIR 82 NPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 NPN  | GIR 102 NPN | FIR 102 NPN | 600 | 287 | 186 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 102 NPL  | GIR 102 NPL | FIR 102 NPL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 102 NPK  | GIR 102 NPK | FIR 102 NPK |     |     |     |              |    | K |   | K20  |      |    |



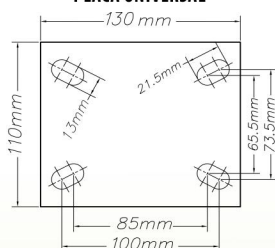
## NYLON INJETADO - INTEGRAL

| REVESTIMENTO     | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|------------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                  |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| NYLON - INTEGRAL | R 52 NNN   | GIR 52 NNN  | FIR 52 NNN  | 350 | 166 | 107 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|                  | R 52>NNL   | GIR 52>NNL  | FIR 52>NNL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|                  | R 52>NNK   | GIR 52>NNK  | FIR 52>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 62 NNN   | GIR 62 NNN  | FIR 62 NNN  | 400 | 191 | 122 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|                  | R 62>NNL   | GIR 62>NNL  | FIR 62>NNL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|                  | R 62>NNK   | GIR 62>NNK  | FIR 62>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 82 NNN   | GIR 82 NNN  | FIR 82 NNN  | 500 | 248 | 154 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|                  | R 82>NNL   | GIR 82>NNL  | FIR 82>NNL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|                  | R 82>NNK   | GIR 82>NNK  | FIR 82>NNK  |     |     |     |              |    | K |   | K20  |      |    |
|                  | R 102 NNN  | GIR 102 NNN | FIR 102 NNN | 600 | 287 | 186 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|                  | R 102>NNL  | GIR 102>NNL | FIR 102>NNL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|                  | R 102>NNK  | GIR 102>NNK | FIR 102>NNK |     |     |     |              |    | K |   | K20  |      |    |

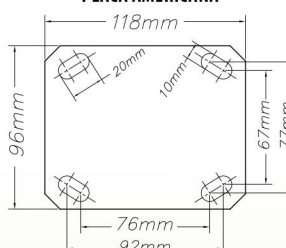
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA AMERICANA



**Fixação por Espiga Lisa**

Espiga Lisa:  
 Ø 31,75 mm x 150 mm  
 Ø 33,5 mm x 150 mm

Série 2

### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"



# SÉRIE 2 - LINHA - IR - CARGAS DE ATÉ 600 kg



## POLIPROPILENO - INJETADO

| REVESTIMENTO | REFERÊNCIA | IR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO  | R 52 PPN   | GIR 52 PPN  | FIR 52 PPN  | 325 | 166 |     | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 PPL   | GIR 52 PPL  | FIR 52 PPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 PPK   | GIR 52 PPK  | FIR 52 PPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 PPN   | GIR 62 PPN  | FIR 62 PPN  | 350 | 191 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|              | R 62 PPL   | GIR 62 PPL  | FIR 62 PPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 PPK   | GIR 62 PPK  | FIR 62 PPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 PPN   | GIR 82 PPN  | FIR 82 PPN  | 400 | 248 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 PPL   | GIR 82 PPL  | FIR 82 PPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 PPK   | GIR 82 PPK  | FIR 82 PPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 PPN  | GIR 102 PPN | FIR 102 PPN | 500 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" |      |    |
|              | R 102 PPL  | GIR 102 PPL | FIR 102 PPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 PPK  | GIR 102 PPK | FIR 102 PPK |     |     |     |              |    | K |   | K20  |      |    |



## CELERON

| REVESTIMENTO | REFERÊNCIA | IR        |           | kg  | mm  | mm  | mm          | mm | + |   |      | +    | mm |
|--------------|------------|-----------|-----------|-----|-----|-----|-------------|----|---|---|------|------|----|
|              |            |           |           |     |     |     |             |    | L | K |      |      |    |
| CELERON      | R 52 CL    | GIR 52 CL | FIR 52 CL | 400 | 163 | 107 | 5"<br>125mm | 2" | L | — | 5/8" | 1/2" | 62 |
|              | R 52 CK    | GIR 52 CK | FIR 52 CK |     |     |     |             |    | K |   | K15  |      |    |
|              | R 62 CL    | GIR 62 CL | FIR 62 CL | 400 | 188 | 122 | 6"<br>150mm | 2" | L | — | 5/8" |      |    |
|              | R 62 CK    | GIR 62 CK | FIR 62 CK |     |     |     |             |    | K |   | K15  |      |    |
|              | R 82 CL    | GIR 82 CL | FIR 82 CL | 400 | 248 | 154 | 8"<br>200mm | 2" | L | — | 7/8" | 5/8" |    |
|              | R 82 CK    | GIR 82 CK | FIR 82 CK |     |     |     |             |    | K |   | K20  |      |    |



## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA | IR         |            | kg  | mm  | mm  | mm           | mm | + |  |     | +    | mm |
|--------------|------------|------------|------------|-----|-----|-----|--------------|----|---|--|-----|------|----|
|              |            |            |            |     |     |     |              |    | K |  |     |      |    |
| FERRO        | R 52 FK    | GIR 52 FK  | FIR 52 FK  | 350 | 163 | 107 | 5"<br>125mm  | 2" | K |  | K15 | 1/2" | 62 |
|              | R 62 FK    | GIR 62 FK  | FIR 62 FK  | 400 | 188 | 122 | 6"<br>150mm  | 2" | K |  | K15 |      |    |
|              | R 82 FK    | GIR 82 FK  | FIR 82 FK  | 500 | 245 | 154 | 8"<br>200mm  | 2" | K |  | K20 | 5/8" |    |
|              | R 102 FK   | GIR 102 FK | FIR 102 FK | 600 | 287 | 186 | 10"<br>250mm | 2" | K |  | K20 |      |    |

# SÉRIE 2 /14 - LINHA - IR - CARGAS DE ATÉ 400 kg

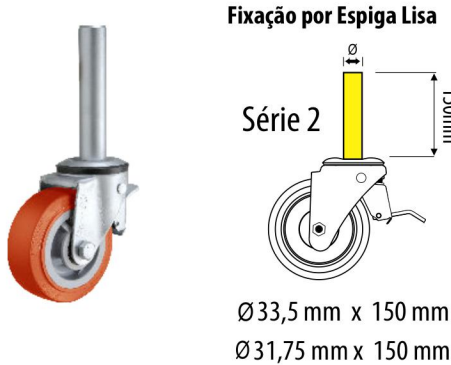


## Modelo: GIRELOA 62 UPN

- ✓ Construído com roda de Poliuretano injetado, medindo 6" de diâmetro X 2" de largura.
- ✓ Espiga de 150 mm de comprimento e dois diâmetros distintos de 31,75 mm ou 33,5 mm (Outros diâmetros poderão ser fabricados sob consulta).
- ✓ Rolamento em bucha de Nylon (Maior economia e durabilidade), suporta 400 kg por rodízio.
- ✓ Freio Dupla Ação (Trava o giro do rodízio e roda simultaneamente)

## RODÍZIO PARA ANDAIME

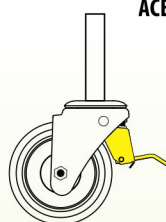
## Modelos de Rodízios de Andaime



| REFERÊNCIA | GIRELOA         | KG  | mm   | mm  | mm | mm    | +      |     |       | mm    |    |
|------------|-----------------|-----|------|-----|----|-------|--------|-----|-------|-------|----|
|            |                 |     |      |     |    |       | N      | K   | 7/16" |       |    |
| R 514 BFN  | GIRELOA 514 BFN | 175 | 162  | 104 | 5" | 125mm | 1.1/2" | N   | 7/16" | 7/16" | 49 |
| R 514 BFK  | GIRELOA 514 BFK |     |      |     |    |       |        | K   | K15   |       |    |
| R 514 UFN  | GIRELOA 514 UFN | 300 | 162  | 104 | 5" | 125mm | 1.1/2" | N   | 7/16" | 7/16" | 49 |
| R 514 UFK  | GIRELOA 514 UFK |     |      |     |    |       |        | K   | K15   |       |    |
| R 614 BFN  | GIRELOA 614 BFN | 200 | 184  | 116 | 6" | 150mm | 1.1/2" | N   | 7/16" | 7/16" | 49 |
| R 614 BFK  | GIRELOA 614 BFK |     |      |     |    |       |        | K   | K15   |       |    |
| R 614 UFN  | GIRELOA 614 UFN | 350 | 184  | 116 | 6" | 150mm | 1.1/2" | N   | 7/16" | 7/16" | 49 |
| R 614 UFK  | GIRELOA 614 UFK |     |      |     |    |       |        | K   | K15   |       |    |
| R 52 BPN   | GIRELOA 52 BPN  | 200 | 166  | 107 | 5" | 125mm | 2"     | N   | 5/8"  | 1/2"  | 62 |
| R 52 BPL   | GIRELOA 52 BPL  |     |      |     |    |       |        | L   | 5/8"  |       |    |
| R 52 BPK   | GIRELOA 52 BPK  |     |      |     |    |       |        | K   | K15   |       |    |
| R 52 BFN   | GIRELOA 52 BFN  | 200 | 163  | 107 | 5" | 125mm | 2"     | N   | 5/8"  | 1/2"  | 62 |
| R 52 BFK   | GIRELOA 52 BFK  |     |      |     |    |       |        | K   | K15   |       |    |
| R 52 UPN   | GIRELOA 52 UPN  |     |      |     |    |       |        | N   | 5/8"  |       |    |
| R 52 UPL   | GIRELOA 52 UPL  | 350 | 166  | 107 | 5" | 125mm | 2"     | L   | 5/8"  | 1/2"  | 62 |
| R 52 UPK   | GIRELOA 52 UPK  |     |      |     |    |       |        | K   | K15   |       |    |
| R 52 UNNM  | GIRELOA 52 UNNM |     |      |     |    |       |        | N   | 5/8"  |       |    |
| R 52 UNLM  | GIRELOA 52 UNLM | 350 | 163  | 107 | 5" | 125mm | 2"     | L   | 5/8"  | 1/2"  | 62 |
| R 52 UNKM  | GIRELOA 52 UNKM |     |      |     |    |       |        | K   | K15   |       |    |
| R 52 UFN   | GIRELOA 52 UFN  |     |      |     |    |       |        | N   | 5/8"  |       |    |
| R 52 UFK   | GIRELOA 52 UFK  | 350 | 163  | 107 | 5" | 125mm | 2"     | K   | K15   | 1/2"  | 62 |
| R 62 BPN   | GIRELOA 62 BPN  |     |      |     |    |       |        | N   | 5/8"  |       |    |
| R 62 BPL   | GIRELOA 62 BPL  |     |      |     |    |       |        | 250 | 191   |       |    |
| R 62 BPK   | GIRELOA 62 BPK  | K   | K15  |     |    |       |        |     |       |       |    |
| R 62 BFN   | GIRELOA 62 BFN  | N   | 5/8" |     |    |       |        |     |       |       |    |
| R 62 BFK   | GIRELOA 62 BFK  | 250 | 188  | 122 | 6" | 150mm | 2"     | K   | K15   | 1/2"  | 62 |
| R 62 UPN   | GIRELOA 62 UPN  |     |      |     |    |       |        | N   | 5/8"  |       |    |
| R 62 UPL   | GIRELOA 62 UPL  |     |      |     |    |       |        | 400 | 191   |       |    |
| R 62 UPK   | GIRELOA 62 UPK  | K   | K15  |     |    |       |        |     |       |       |    |
| R 62 UFN   | GIRELOA 62 UFN  | N   | 5/8" |     |    |       |        |     |       |       |    |
| R 62 UFK   | GIRELOA 62 UFK  | 400 | 188  | 122 | 6" | 150mm | 2"     | K   | K15   | 1/2"  | 62 |

### ACESSÓRIOS

OBS: FREIO OPCIONAL "OT"  
(SOB CONSULTA)



Freio "OA"

### TIPO DE MANCAL



Bucha de Nylon  
Grafitado



Rolamento  
de Roletas



Rolamento blindado  
tipo "SKF"





## BORRACHA INJETADA - INOX

| REVESTIMENTO | REFERÊNCIA | IRX          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 BPN   | GIRX 52 BPN  | FIRX 52 BPN  | 140 | 166 | 107 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 BPL   | GIRX 52 BPL  | FIRX 52 BPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 BPK   | GIRX 52 BPK  | FIRX 52 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 BPN   | GIRX 62 BPN  | FIRX 62 BPN  | 175 | 191 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|              | R 62 BPL   | GIRX 62 BPL  | FIRX 62 BPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 BPK   | GIRX 62 BPK  | FIRX 62 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 BPN   | GIRX 82 BPN  | FIRX 82 BPN  | 210 | 248 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 BPL   | GIRX 82 BPL  | FIRX 82 BPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 BPK   | GIRX 82 BPK  | FIRX 82 BPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 BPN  | GIRX 102 BPN | FIRX 102 BPN | 245 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" |      |    |
|              | R 102 BPL  | GIRX 102 BPL | FIRX 102 BPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 BPK  | GIRX 102 BPK | FIRX 102 BPK |     |     |     |              |    | K |   | K20  |      |    |



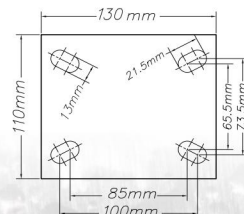
## NYLON INJETADO INTEGRAL - INOX

| REVESTIMENTO     | REFERÊNCIA | IRX          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                  |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| NYLON - INTEGRAL | R 52 NNN   | GIRX 52 NNN  | FIRX 52 NNN  | 245 | 166 | 107 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                  | R 52>NNL   | GIRX 52>NNL  | FIRX 52>NNL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                  | R 52>NNK   | GIRX 52>NNK  | FIRX 52>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 62 NNN   | GIRX 62 NNN  | FIRX 62 NNN  | 280 | 191 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|                  | R 62>NNL   | GIRX 62>NNL  | FIRX 62>NNL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                  | R 62>NNK   | GIRX 62>NNK  | FIRX 62>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 82 NNN   | GIRX 82 NNN  | FIRX 82 NNN  | 350 | 248 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                  | R 82>NNL   | GIRX 82>NNL  | FIRX 82>NNL  |     |     |     |              |    | L | — | 7/8" |      |    |
|                  | R 82>NNK   | GIRX 82>NNK  | FIRX 82>NNK  |     |     |     |              |    | K |   | K20  |      |    |
|                  | R 102 NNN  | GIRX 102 NNN | FIRX 102 NNN | 420 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" |      |    |
|                  | R 102>NNL  | GIRX 102>NNL | FIRX 102>NNL |     |     |     |              |    | L | — | 7/8" |      |    |
|                  | R 102>NNK  | GIRX 102>NNK | FIRX 102>NNK |     |     |     |              |    | K |   | K20  |      |    |

### ACESSÓRIOS



### PLACA UNIVERSAL



### TIPO DE MANCAL



**Bucha de Nylon Grafitado**



**Rolamento de Roletes**



**Rolamento blindado tipo "SKF"**



## POLIURETANO MOLDADO - NYLON

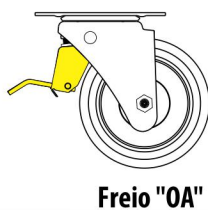
| REVESTIMENTO          | REFERÊNCIA | IRX           |               | kg  | mm  | mm  | mm           | mm | + |   |      | mm   |    |
|-----------------------|------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                       |            |               |               |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO - MOLDADO | R 52 UNNM  | GIRX 52 UNNM  | FIRX 52 UNNM  | 245 | 163 | 107 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                       | R 52 UNLM  | GIRX 52 UNLM  | FIRX 52 UNLM  |     |     |     |              |    | L | — | 5/8" |      |    |
|                       | R 52 UNKM  | GIRX 52 UNKM  | FIRX 52 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 62 UNNM  | GIRX 62 UNNM  | FIRX 62 UNNM  | 280 | 188 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|                       | R 62 UNLM  | GIRX 62 UNLM  | FIRX 62 UNLM  |     |     |     |              |    | L | — | 5/8" |      |    |
|                       | R 62 UNKM  | GIRX 62 UNKM  | FIRX 62 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 82 UNNM  | GIRX 82 UNNM  | FIRX 82 UNNM  | 350 | 245 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                       | R 82 UNLM  | GIRX 82 UNLM  | FIRX 82 UNLM  |     |     |     |              |    | L | — | 7/8" |      |    |
|                       | R 82 UNKM  | GIRX 82 UNKM  | FIRX 82 UNKM  |     |     |     |              |    | K |   | K20  |      |    |
|                       | R 102 UNNM | GIRX 102 UNNM | FIRX 102 UNNM | 420 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" |      |    |
|                       | R 102 UNLM | GIRX 102 UNLM | FIRX 102 UNLM |     |     |     |              |    | L | — | 7/8" |      |    |
|                       | R 102 UNKM | GIRX 102 UNKM | FIRX 102 UNKM |     |     |     |              |    | K |   | K20  |      |    |



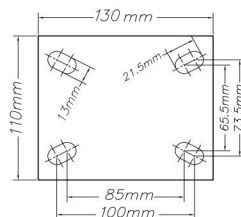
## NYLON COM FIBRA DE VIDRO

| REVESTIMENTO             | REFERÊNCIA | IRX           |               | kg  | mm  | mm  | mm           | mm | + |   |      | mm   |    |
|--------------------------|------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                          |            |               |               |     |     |     |              |    | N | L | K    |      |    |
| NYLON COM FIBRA DE VIDRO | R 52 NNVN  | GIRX 52 NNVN  | FIRX 52 NNVN  | 245 | 166 | 107 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                          | R 52 NNVK  | GIRX 52 NNVK  | FIRX 52 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 62 NNVN  | GIRX 62 NNVN  | FIRX 62 NNVN  | 280 | 191 | 122 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|                          | R 62 NNVK  | GIRX 62 NNVK  | FIRX 62 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 82 NNVN  | GIRX 82 NNVN  | FIRX 82 NNVN  | 350 | 248 | 154 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                          | R 82 NNVK  | GIRX 82 NNVK  | FIRX 82 NNVK  |     |     |     |              |    | K |   | K20  |      |    |
|                          | R 102 NNVN | GIRX 102 NNVN | FIRX 102 NNVN | 420 | 287 | 186 | 10"<br>250mm | 2" | N | — | 7/8" |      |    |
|                          | R 102 NNVK | GIRX 102 NNVK | FIRX 102 NNVK |     |     |     |              |    | K |   | K20  |      |    |

### ACESSÓRIOS



### PLACA UNIVERSAL



### TIPO DE MANCAL





# SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 450 kg



## BORRACHA - INJETADA

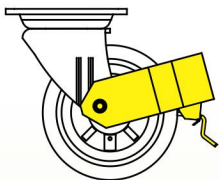
| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | mm | + |      |      | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|----|---|------|------|----|
|              |            |             |             |     |     |     |              |    |    | N | L    | K    |    |
| BORRACHA     | R 52 BPN   | GMR 52 BPN  | FMR 52 BPN  | 200 | 166 | 110 | 5"<br>125mm  | 2" | N  | — | 5/8" | 1/2" | 62 |
|              | R 52 BPL   | GMR 52 BPL  | FMR 52 BPL  |     |     |     |              |    | L  | — | 5/8" |      |    |
|              | R 52 BPK   | GMR 52 BPK  | FMR 52 BPK  |     |     |     |              |    | K  |   | K15  |      |    |
|              | R 62 BPN   | GMR 62 BPN  | FMR 62 BPN  | 250 | 196 | 133 | 6"<br>150mm  | 2" | N  | — | 5/8" | 1/2" |    |
|              | R 62 BPL   | GMR 62 BPL  | FMR 62 BPL  |     |     |     |              |    | L  | — | 5/8" |      |    |
|              | R 62 BPK   | GMR 62 BPK  | FMR 62 BPK  |     |     |     |              |    | K  |   | K15  |      |    |
|              | R 82 BPN   | GMR 82 BPN  | FMR 82 BPN  | 300 | 237 | 173 | 8"<br>200mm  | 2" | N  | — | 7/8" | 5/8" |    |
|              | R 82 BPL   | GMR 82 BPL  | FMR 82 BPL  |     |     |     |              |    | L  | — | 7/8" |      |    |
|              | R 82 BPK   | GMR 82 BPK  | FMR 82 BPK  |     |     |     |              |    | K  |   | K20  |      |    |
|              | R 102 BPN  | GMR 102 BPN | FMR 102 BPN | 350 | 291 | 189 | 10"<br>250mm | 2" | N  | — | 7/8" | 5/8" |    |
|              | R 102 BPL  | GMR 102 BPL | FMR 102 BPL |     |     |     |              |    | L  | — | 7/8" |      |    |
|              | R 102 BPK  | GMR 102 BPK | FMR 102 BPK |     |     |     |              |    | K  |   | K20  |      |    |



## BORRACHA - MOLDADA

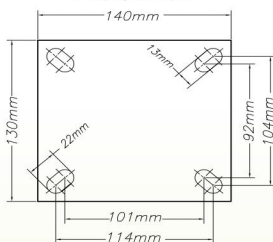
| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | mm | + |      |      | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|----|---|------|------|----|
|              |            |             |             |     |     |     |              |    |    | N | L    | K    |    |
| BORRACHA     | R 52 BFN   | GMR 52 BFN  | FMR 52 BFN  | 250 | 164 | 107 | 5"<br>125mm  | 2" | N  | — | 5/8" | 1/2" | 62 |
|              | R 52 BFK   | GMR 52 BFK  | FMR 52 BFK  |     |     |     |              |    | K  |   | K15  |      |    |
|              | R 62 BFN   | GMR 62 BFN  | FMR 62 BFN  | 300 | 194 | 122 | 6"<br>150mm  | 2" | N  | — | 5/8" |      |    |
|              | R 62 BFK   | GMR 62 BFK  | FMR 62 BFK  |     |     |     |              |    | K  |   | K15  |      |    |
|              | R 82 BFK   | GMR 82 BFK  | FMR 82 BFK  | 350 | 234 | 154 | 8"<br>200mm  | 2" | K  |   | K20  | 5/8" |    |
|              | R 102 BFK  | GMR 102 BFK | FMR 102 BFK | 450 | 288 | 186 | 10"<br>250mm | 2" | K  |   | K20  |      |    |

### ACESSÓRIOS

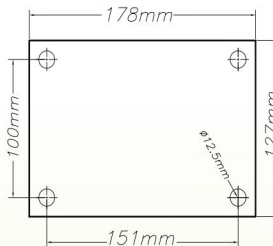


Freio "OP"

### PLACA UNIVERSAL



### PLACA OPCIONAL



**Fixação por Espiga Lisa**

Espiga Lisa:

Ø 31,75 mm x 150 mm

Ø 33,5 mm x 150 mm

Série 2

### TIPO DE MANCAL

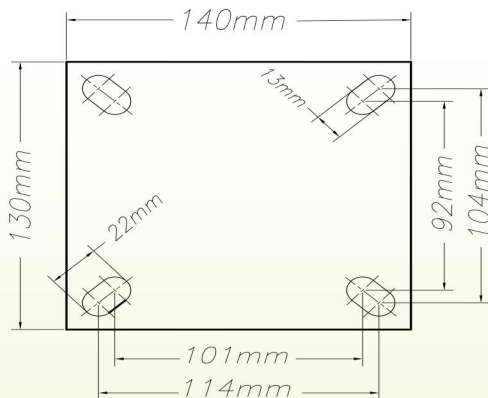
- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"



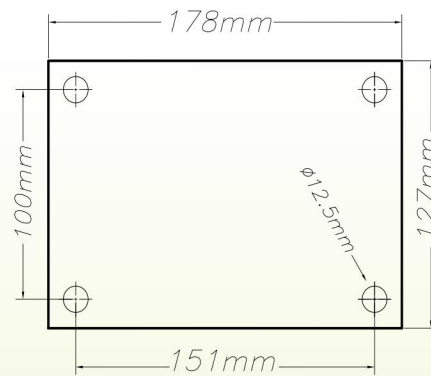
## BORRACHA TERMOPLÁSTICA - INJETADA

| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | mm | + |      |      | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|----|---|------|------|----|
|              |            |             |             |     |     |     |              |    |    | N | L    | K    |    |
| BORRACHA     | R 52 TPN   | GMR 52 TPN  | FMR 52 TPN  | 220 | 166 | 110 | 5"<br>125mm  | 2" | N  | ■ | 5/8" | 1/2" | 62 |
|              | R 52 TPL   | GMR 52 TPL  | FMR 52 TPL  |     |     |     |              |    | L  | ■ | 5/8" |      |    |
|              | R 52 TPK   | GMR 52 TPK  | FMR 52 TPK  |     |     |     |              |    | K  |   | K15  |      |    |
|              | R 62 TPN   | GMR 62 TPN  | FMR 62 TPN  | 270 | 196 | 133 | 6"<br>150mm  | 2" | N  | ■ | 5/8" | 1/2" |    |
|              | R 62 TPL   | GMR 62 TPL  | FMR 62 TPL  |     |     |     |              |    | L  | ■ | 5/8" |      |    |
|              | R 62 TPK   | GMR 62 TPK  | FMR 62 TPK  |     |     |     |              |    | K  |   | K15  |      |    |
|              | R 82 TPN   | GMR 82 TPN  | FMR 82 TPN  | 320 | 237 | 173 | 8"<br>200mm  | 2" | N  | ■ | 7/8" | 5/8" |    |
|              | R 82 TPL   | GMR 82 TPL  | FMR 82 TPL  |     |     |     |              |    | L  | ■ | 7/8" |      |    |
|              | R 82 TPK   | GMR 82 TPK  | FMR 82 TPK  |     |     |     |              |    | K  |   | K20  |      |    |
|              | R 102 TPN  | GMR 102 TPN | FMR 102 TPN | 370 | 291 | 189 | 10"<br>250mm | 2" | N  | ■ | 7/8" | 5/8" |    |
|              | R 102 TPL  | GMR 102 TPL | FMR 102 TPL |     |     |     |              |    | L  | ■ | 7/8" |      |    |
|              | R 102 TPK  | GMR 102 TPK | FMR 102 TPK |     |     |     |              |    | K  |   | K20  |      |    |

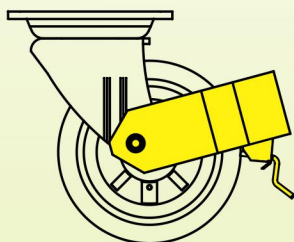
PLACA UNIVERSAL



PLACA OPCIONAL



### ACESSÓRIOS



Freio "OP"

### TIPO DE MANCAL



Bucha de Nylon Grafitado



Rolamento de Roletes



Rolamento blindado tipo "SKF"



# SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



## POLIURETANO - INJETADO

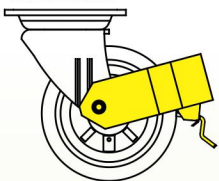
| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | + |  |      | mm   |    |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|--|------|------|----|
|              |            |             |             |     |     |     |              |    |   |  |      |      |    |
| POLIURETANO  | R 52 UPN   | GMR 52 UPN  | FMR 52 UPN  | 350 | 166 | 110 | 5"<br>125mm  | 2" | N |  | 5/8" | 1/2" | 62 |
|              | R 52 UPL   | GMR 52 UPL  | FMR 52 UPL  |     |     |     |              |    | L |  | 5/8" |      |    |
|              | R 52 UPK   | GMR 52 UPK  | FMR 52 UPK  |     |     |     |              |    | K |  | K15  |      |    |
|              | R 62 UPN   | GMR 62 UPN  | FMR 62 UPN  | 400 | 196 | 133 | 6"<br>150mm  | 2" | N |  | 5/8" |      |    |
|              | R 62 UPL   | GMR 62 UPL  | FMR 62 UPL  |     |     |     |              |    | L |  | 5/8" |      |    |
|              | R 62 UPK   | GMR 62 UPK  | FMR 62 UPK  |     |     |     |              |    | K |  | K15  |      |    |
|              | R 82 UPN   | GMR 82 UPN  | FMR 82 UPN  | 500 | 237 | 173 | 8"<br>200mm  | 2" | N |  | 7/8" | 5/8" |    |
|              | R 82 UPL   | GMR 82 UPL  | FMR 82 UPL  |     |     |     |              |    | L |  | 7/8" |      |    |
|              | R 82 UPK   | GMR 82 UPK  | FMR 82 UPK  |     |     |     |              |    | K |  | K20  |      |    |
|              | R 102 UPN  | GMR 102 UPN | FMR 102 UPN | 600 | 291 | 189 | 10"<br>250mm | 2" | N |  | 7/8" |      |    |
|              | R 102 UPL  | GMR 102 UPL | FMR 102 UPL |     |     |     |              |    | L |  | 7/8" |      |    |
|              | R 102 UPK  | GMR 102 UPK | FMR 102 UPK |     |     |     |              |    | K |  | K20  |      |    |



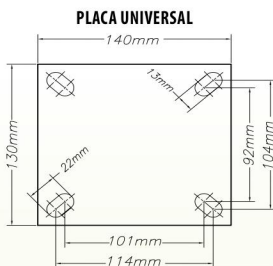
## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | + |  |      | mm   |    |
|-----------------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|--|------|------|----|
|                       |            |             |             |     |     |     |              |    |   |  |      |      |    |
| POLIURETANO - MOLDADO | R 42 UFK   | GMR 42 UFK  | FMR 42 UFK  | 500 | 140 | 88  | 4"<br>100mm  | 2" | K |  | K15  | 1/2" | 62 |
|                       | R 52 UFN   | GMR 52 UFN  | FMR 52 UFN  | 600 | 164 | 110 | 5"<br>125mm  | 2" | N |  | 5/8" |      |    |
|                       | R 52 UFK   | GMR 52 UFK  | FMR 52 UFK  |     |     |     |              |    | K |  | K15  |      |    |
|                       | R 62 UFN   | GMR 62 UFN  | FMR 62 UFN  | 600 | 194 | 133 | 6"<br>150mm  | 2" | N |  | 5/8" |      |    |
|                       | R 62 UFK   | GMR 62 UFK  | FMR 62 UFK  |     |     |     |              |    | K |  | K15  |      |    |
|                       | R 82 UFK   | GMR 82 UFK  | FMR 82 UFK  | 700 | 234 | 173 | 8"<br>200mm  | 2" | K |  | K20  |      |    |
|                       | R 102 UFK  | GMR 102 UFK | FMR 102 UFK | 700 | 288 | 189 | 10"<br>250mm | 2" | K |  | K20  |      |    |

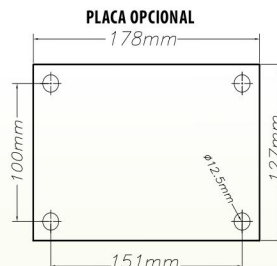
### ACESSÓRIOS



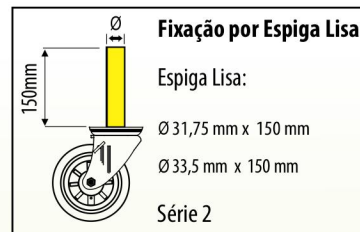
Freio "OP"



PLACA UNIVERSAL



PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



## POLIURETANO MOLDADO - NYLON

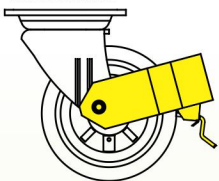
| REVESTIMENTO          | REFERÊNCIA | MR           |              | kg  | mm  | mm  | mm           | mm | + |   |      | mm   |    |
|-----------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                       |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO - MOLDADO | R 52 UNNM  | GMR 52 UNNM  | FMR 52 UNNM  | 475 | 164 | 110 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|                       | R 52 UNLM  | GMR 52 UNLM  | FMR 52 UNLM  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|                       | R 52 UNKM  | GMR 52 UNKM  | FMR 52 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 62 UNNM  | GMR 62 UNNM  | FMR 62 UNNM  | 550 | 194 | 133 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|                       | R 62 UNLM  | GMR 62 UNLM  | FMR 62 UNLM  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|                       | R 62 UNKM  | GMR 62 UNKM  | FMR 62 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 82 UNNM  | GMR 82 UNNM  | FMR 82 UNNM  | 700 | 234 | 173 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|                       | R 82 UNLM  | GMR 82 UNLM  | FMR 82 UNLM  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|                       | R 82 UNKM  | GMR 82 UNKM  | FMR 82 UNKM  |     |     |     |              |    | K |   | K20  |      |    |
|                       | R 102 UNNM | GMR 102 UNNM | FMR 102 UNNM | 700 | 288 | 189 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|                       | R 102 UNLM | GMR 102 UNLM | FMR 102 UNLM |     |     |     |              |    | L | ■ | 7/8" |      |    |
|                       | R 102 UNKM | GMR 102 UNKM | FMR 102 UNKM |     |     |     |              |    | K |   | K20  |      |    |



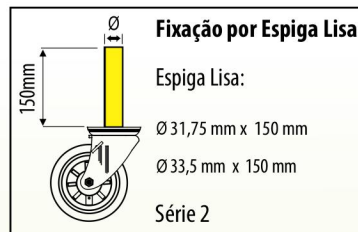
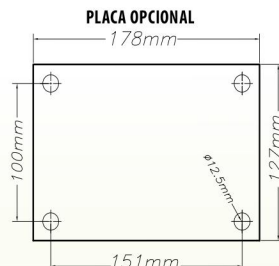
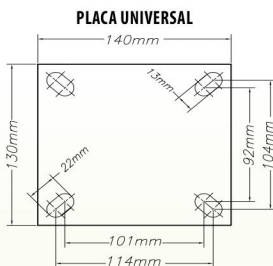
## NYLON COM FIBRA DE VIDRO

| REVESTIMENTO             | REFERÊNCIA | MR           |              | kg  | mm  | mm  | mm           | mm | + |   |      | mm   |    |
|--------------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                          |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| NYLON COM FIBRA DE VIDRO | R 52 NNVN  | GMR 52 NNVN  | FMR 52 NNVN  | 500 | 164 | 110 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|                          | R 52 NNVK  | GMR 52 NNVK  | FMR 52 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 62 NNVN  | GMR 62 NNVN  | FMR 62 NNVN  | 600 | 194 | 133 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|                          | R 62 NNVK  | GMR 62 NNVK  | FMR 62 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 82 NNVN  | GMR 82 NNVN  | FMR 82 NNVN  | 700 | 234 | 173 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|                          | R 82 NNVK  | GMR 82 NNVK  | FMR 82 NNVK  |     |     |     |              |    | K |   | K20  |      |    |
|                          | R 102 NNVN | GMR 102 NNVN | FMR 102 NNVN | 700 | 288 | 189 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|                          | R 102 NNVK | GMR 102 NNVK | FMR 102 NNVK |     |     |     |              |    | K |   | K20  |      |    |

### ACESSÓRIOS



Freio "OP"



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"



# SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 600 kg



## POLIURETANO MOLDADO - ROUND - 60 SHORE D

| REVESTIMENTO              | REFERÊNCIA  | MR            |               | KG  | mm  | mm  | mm           | mm | + | + | +   | mm   |    |
|---------------------------|-------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|-----|------|----|
|                           |             |               |               |     |     |     |              |    |   |   |     |      |    |
| POLIURETANO MOLDADO ROUND | R 52 UFKRV  | GMR 52 UFKRV  | FMR 52 UFKRV  | 350 | 164 | 110 | 5"<br>125mm  | 2" | K |   | K15 | 1/2" | 62 |
|                           | R 62 UFKRV  | GMR 62 UFKRV  | FMR 62 UFKRV  | 400 | 194 | 133 | 6"<br>150mm  | 2" | K |   | K15 |      |    |
|                           | R 82 UFKRV  | GMR 82 UFKRV  | FMR 82 UFKRV  | 500 | 234 | 173 | 8"<br>200mm  | 2" | K |   | K20 | 5/8" |    |
|                           | R 102 UFKRV | GMR 102 UFKRV | FMR 102 UFKRV | 600 | 288 | 189 | 10"<br>250mm | 2" | K |   | K20 |      |    |



## POLIURETANO MOLDADO - ROUND - 90 SHORE A

| REVESTIMENTO              | REFERÊNCIA  | MR            |               | KG  | mm  | mm  | mm           | mm | + | + | +   | mm   |    |
|---------------------------|-------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|-----|------|----|
|                           |             |               |               |     |     |     |              |    |   |   |     |      |    |
| POLIURETANO MOLDADO ROUND | R 52 UFKRA  | GMR 52 UFKRA  | FMR 52 UFKRA  | 350 | 164 | 110 | 5"<br>125mm  | 2" | K |   | K15 | 1/2" | 62 |
|                           | R 62 UFKRA  | GMR 62 UFKRA  | FMR 62 UFKRA  | 400 | 194 | 133 | 6"<br>150mm  | 2" | K |   | K15 |      |    |
|                           | R 82 UFKRA  | GMR 82 UFKRA  | FMR 82 UFKRA  | 500 | 234 | 173 | 8"<br>200mm  | 2" | K |   | K20 | 5/8" |    |
|                           | R 102 UFKRA | GMR 102 UFKRA | FMR 102 UFKRA | 600 | 288 | 189 | 10"<br>250mm | 2" | K |   | K20 |      |    |



## POLIURETANO MOLDADO - ALUMÍNIO - 80 SHORE A

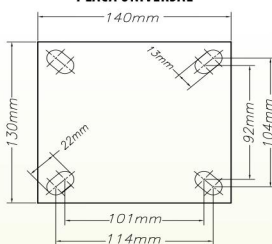
| REVESTIMENTO | REFERÊNCIA | MR         |            | KG  | mm  | mm  | mm          | mm | + | + | +   | mm   |    |
|--------------|------------|------------|------------|-----|-----|-----|-------------|----|---|---|-----|------|----|
|              |            |            |            |     |     |     |             |    |   |   |     |      |    |
| POLIURETANO  | R 52 UAK   | GMR 52 UAK | FMR 52 UAK | 350 | 166 | 110 | 5"<br>125mm | 2" | K |   | K15 | 1/2" | 62 |
|              | R 62 UAK   | GMR 62 UAK | FMR 62 UAK | 400 | 196 | 133 | 6"<br>150mm | 2" | K |   | K15 |      |    |
|              | R 82 UAK   | GMR 82 UAK | FMR 82 UAK | 500 | 237 | 173 | 8"<br>200mm | 2" | K |   | K20 | 5/8" |    |

### ACESSÓRIOS

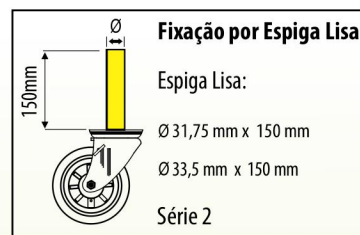
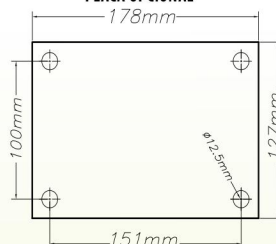


Freio "OP"

### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



## NYLON - INJETADO

| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| NYLON        | R 52 NPN   | GMR 52 NPN  | FMR 52 NPN  | 350 | 166 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 NPL   | GMR 52 NPL  | FMR 52 NPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 NPK   | GMR 52 NPK  | FMR 52 NPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 NPN   | GMR 62 NPN  | FMR 62 NPN  | 400 | 196 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|              | R 62 NPL   | GMR 62 NPL  | FMR 62 NPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 NPK   | GMR 62 NPK  | FMR 62 NPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 NPN   | GMR 82 NPN  | FMR 82 NPN  | 500 | 237 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 NPL   | GMR 82 NPL  | FMR 82 NPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 NPK   | GMR 82 NPK  | FMR 82 NPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 NPN  | GMR 102 NPN | FMR 102 NPN | 600 | 291 | 189 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|              | R 102 NPL  | GMR 102 NPL | FMR 102 NPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 NPK  | GMR 102 NPK | FMR 102 NPK |     |     |     |              |    | K |   | K20  |      |    |



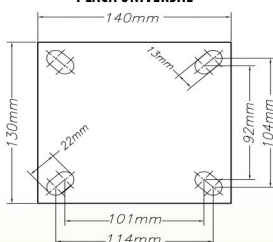
## NYLON INJETADO - INTEGRAL

| REVESTIMENTO     | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|------------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                  |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| NYLON - INTEGRAL | R 52 NNN   | GMR 52 NNN  | FMR 52 NNN  | 500 | 166 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                  | R 52>NNL   | GMR 52>NNL  | FMR 52>NNL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                  | R 52>NNK   | GMR 52>NNK  | FMR 52>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 62 NNN   | GMR 62 NNN  | FMR 62 NNN  | 600 | 196 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|                  | R 62>NNL   | GMR 62>NNL  | FMR 62>NNL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                  | R 62>NNK   | GMR 62>NNK  | FMR 62>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 82 NNN   | GMR 82 NNN  | FMR 82 NNN  | 700 | 237 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                  | R 82>NNL   | GMR 82>NNL  | FMR 82>NNL  |     |     |     |              |    | L | — | 7/8" |      |    |
|                  | R 82>NNK   | GMR 82>NNK  | FMR 82>NNK  |     |     |     |              |    | K |   | K20  |      |    |
|                  | R 102 NNN  | GMR 102 NNN | FMR 102 NNN | 700 | 291 | 189 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|                  | R 102>NNL  | GMR 102>NNL | FMR 102>NNL |     |     |     |              |    | L | — | 7/8" |      |    |
|                  | R 102>NNK  | GMR 102>NNK | FMR 102>NNK |     |     |     |              |    | K |   | K20  |      |    |

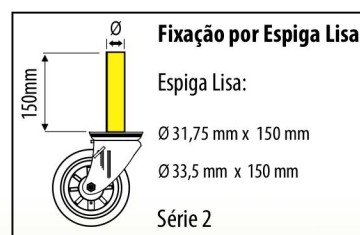
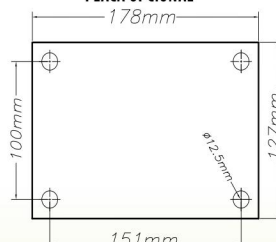
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



## POLIPROPILENO - INJETADO

| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |             |             |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO  | R 52 PPN   | GMR 52 PPN  | FMR 52 PPN  | 325 | 166 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 PPL   | GMR 52 PPL  | FMR 52 PPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 PPK   | GMR 52 PPK  | FMR 52 PPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 PPN   | GMR 62 PPN  | FMR 62 PPN  | 350 | 196 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|              | R 62 PPL   | GMR 62 PPL  | FMR 62 PPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 PPK   | GMR 62 PPK  | FMR 62 PPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 PPN   | GMR 82 PPN  | FMR 82 PPN  | 400 | 237 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 PPL   | GMR 82 PPL  | FMR 82 PPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 PPK   | GMR 82 PPK  | FMR 82 PPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 PPN  | GMR 102 PPN | FMR 102 PPN | 500 | 291 | 189 | 10"<br>250mm | 2" | N | — | 7/8" |      |    |
|              | R 102 PPL  | GMR 102 PPL | FMR 102 PPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 PPK  | GMR 102 PPK | FMR 102 PPK |     |     |     |              |    | K |   | K20  |      |    |



## CELERON

| REVESTIMENTO | REFERÊNCIA | MR        |           | kg  | mm  | mm  | mm          | mm | + |   |      | +    | mm |
|--------------|------------|-----------|-----------|-----|-----|-----|-------------|----|---|---|------|------|----|
|              |            |           |           |     |     |     |             |    | L | K | K    |      |    |
| CELERON      | R 52 CL    | GMR 52 CL | FMR 52 CL | 500 | 164 | 110 | 5"<br>125mm | 2" | L | — | 5/8" | 1/2" | 62 |
|              | R 52 CK    | GMR 52 CK | FMR 52 CK |     |     |     |             |    | K |   | K15  |      |    |
|              | R 62 CL    | GMR 62 CL | FMR 62 CL | 600 | 194 | 133 | 6"<br>150mm | 2" | L | — | 5/8" |      |    |
|              | R 62 CK    | GMR 62 CK | FMR 62 CK |     |     |     |             |    | K |   | K15  |      |    |
|              | R 82 CL    | GMR 82 CL | FMR 82 CL | 700 | 237 | 173 | 8"<br>200mm | 2" | L | — | 7/8" | 5/8" |    |
|              | R 82 CK    | GMR 82 CK | FMR 82 CK |     |     |     |             |    | K |   | K20  |      |    |



## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA | MR         |            | kg  | mm  | mm  | mm           | mm | + |   |     | +    | mm |
|--------------|------------|------------|------------|-----|-----|-----|--------------|----|---|---|-----|------|----|
|              |            |            |            |     |     |     |              |    | K | K | K   |      |    |
| FERRO        | R 52 FK    | GMR 52 FK  | FMR 52 FK  | 500 | 164 | 110 | 5"<br>125mm  | 2" | K |   | K15 | 1/2" | 62 |
|              | R 62 FK    | GMR 62 FK  | FMR 62 FK  | 600 | 194 | 133 | 6"<br>150mm  | 2" | K |   | K15 |      |    |
|              | R 82 FK    | GMR 82 FK  | FMR 82 FK  | 700 | 234 | 173 | 8"<br>200mm  | 2" | K |   | K20 | 5/8" |    |
|              | R 102 FK   | GMR 102 FK | FMR 102 FK | 700 | 288 | 189 | 10"<br>250mm | 2" | K |   | K20 |      |    |



## RODÍZIO PARA ANDAIME

## Modelo: GMRELOT 62 UFK



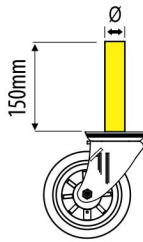
- ✓ Construído com roda de Poliuretano moldado, medindo 6" de diâmetro X 2" de largura.
- ✓ Espiga de 150 mm de comprimento e dois diâmetros distintos de 31,75 mm ou 33,5 mm (Outros diâmetros poderão ser fabricados sob consulta).
- ✓ Rolamento de esferas (Maior resistência e durabilidade), suporta 600 kg por rodízio.
- ✓ Freio Trava na Roda

### Fixação por Espiga Lisa

Série 2

Ø 31,75 mm x 150 mm

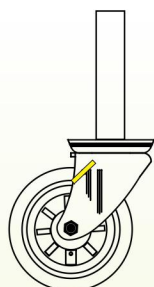
Ø 33,5 mm x 150 mm



## Modelos de Rodízios de Andaime

| REFERÊNCIA | GMRELOT         | KG  | mm  | mm  | mm | mm    | +  |   |      | +    | mm   |    |
|------------|-----------------|-----|-----|-----|----|-------|----|---|------|------|------|----|
|            |                 |     |     |     |    |       | N  | K | 5/8" |      |      |    |
| R 52 BFN   | GMRELOT 52 BFN  | 250 | 164 | 110 | 5" | 125mm | 2" | N | ■    | 5/8" | 1/2" | 62 |
| R 52 BFK   | GMRELOT 52 BFK  |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 52 NNN   | GMRELOT 52 NNN  | 500 | 166 | 110 | 5" | 125mm | 2" | N | ⊗    | 5/8" | 1/2" | 62 |
| R 52>NNL   | GMRELOT 52>NNL  |     |     |     |    |       |    | L | ■    | 5/8" |      |    |
| R 52>NNK   | GMRELOT 52>NNK  |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 52 UFN   | GMRELOT 52 UFN  | 500 | 164 | 110 | 5" | 125mm | 2" | N | ■    | 5/8" | 1/2" | 62 |
| R 52 UFK   | GMRELOT 52 UFK  |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 62 BFN   | GMRELOT 62 BFN  | 300 | 194 | 133 | 6" | 150mm | 2" | N | ■    | 5/8" | 1/2" | 62 |
| R 62 BFK   | GMRELOT 62 BFK  |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 62 UNNM  | GMRELOT 62 UNNM | 550 | 194 | 133 | 6" | 150mm | 2" | N | ■    | 5/8" | 1/2" | 62 |
| R 62 UNLM  | GMRELOT 62 UNLM |     |     |     |    |       |    | L | ■    | 5/8" |      |    |
| R 62 UNKM  | GMRELOT 62 UNKM |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 62 NNN   | GMRELOT 62 NNN  | 600 | 196 | 133 | 6" | 150mm | 2" | N | ■    | 5/8" | 1/2" | 62 |
| R 62>NNL   | GMRELOT 62>NNL  |     |     |     |    |       |    | L | ■    | 5/8" |      |    |
| R 62>NNK   | GMRELOT 62>NNK  |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 62 UFN   | GMRELOT 62 UFN  | 600 | 194 | 133 | 6" | 150mm | 2" | N | ■    | 5/8" | 1/2" | 62 |
| R 62 UFK   | GMRELOT 62 UFK  |     |     |     |    |       |    | K | ⊗    | K15  |      |    |
| R 82 BFK   | GMRELOT 82 BFK  | 350 | 234 | 173 | 8" | 200mm | 2" | K | ⊗    | K20  | 5/8" | 62 |
| R 82 UFK   | GMRELOT 82 UFK  | 700 | 234 | 173 | 8" | 200mm | 2" | K | ⊗    | K20  | 5/8" | 62 |

## ACESSÓRIOS



Freio "OT"

## TIPO DE MANCAL



Bucha de Nylon Grafitado



Rolamento de Roletes



Rolamento blindado tipo "SKF"



## BORRACHA INJETADA - INOX

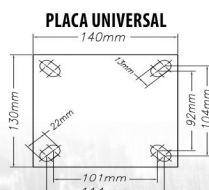
| REVESTIMENTO | REFERÊNCIA | MRX          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 BPN   | GMRX 52 BPN  | FMRX 52 BPN  | 140 | 166 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 BPL   | GMRX 52 BPL  | FMRX 52 BPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 BPK   | GMRX 52 BPK  | FMRX 52 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 BPN   | GMRX 62 BPN  | FMRX 62 BPN  | 175 | 196 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|              | R 62 BPL   | GMRX 62 BPL  | FMRX 62 BPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 BPK   | GMRX 62 BPK  | FMRX 62 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 BPN   | GMRX 82 BPN  | FMRX 82 BPN  | 210 | 237 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 BPL   | GMRX 82 BPL  | FMRX 82 BPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 BPK   | GMRX 82 BPK  | FMRX 82 BPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 BPN  | GMRX 102 BPN | FMRX 102 BPN | 245 | 291 | 189 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|              | R 102 BPL  | GMRX 102 BPL | FMRX 102 BPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 BPK  | GMRX 102 BPK | FMRX 102 BPK |     |     |     |              |    | K |   | K20  |      |    |



## NYLON INJETADO - INTEGRAL

| REVESTIMENTO     | REFERÊNCIA | MRX          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                  |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| NYLON - INTEGRAL | R 52 NNN   | GMRX 52 NNN  | FMRX 52 NNN  | 350 | 166 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                  | R 52>NNL   | GMRX 52>NNL  | FMRX 52>NNL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                  | R 52>NNK   | GMRX 52>NNK  | FMRX 52>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 62 NNN   | GMRX 62 NNN  | FMRX 62 NNN  | 420 | 196 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|                  | R 62>NNL   | GMRX 62>NNL  | FMRX 62>NNL  |     |     |     |              |    | L | — | 5/8" |      |    |
|                  | R 62>NNK   | GMRX 62>NNK  | FMRX 62>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 82 NNN   | GMRX 82 NNN  | FMRX 82 NNN  | 490 | 237 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                  | R 82>NNL   | GMRX 82>NNL  | FMRX 82>NNL  |     |     |     |              |    | L | — | 7/8" |      |    |
|                  | R 82>NNK   | GMRX 82>NNK  | FMRX 82>NNK  |     |     |     |              |    | K |   | K20  |      |    |
|                  | R 102 NNN  | GMRX 102 NNN | FMRX 102 NNN | 490 | 291 | 189 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|                  | R 102>NNL  | GMRX 102>NNL | FMRX 102>NNL |     |     |     |              |    | L | — | 7/8" |      |    |
|                  | R 102>NNK  | GMRX 102>NNK | FMRX 102>NNK |     |     |     |              |    | K |   | K20  |      |    |

### ACESSÓRIOS



### TIPO DE MANCAL







**POLIURETANO MOLDADO - NYLON**

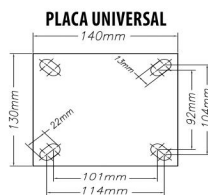
| REVESTIMENTO          | REFERÊNCIA | MR            |               | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|-----------------------|------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                       |            |               |               |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO - MOLDADO | R 52 UNNM  | GMRX 52 UNNM  | FMRX 52 UNNM  | 350 | 164 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                       | R 52 UNLM  | GMRX 52 UNLM  | FMRX 52 UNLM  |     |     |     |              |    | L | — | 5/8" |      |    |
|                       | R 52 UNKM  | GMRX 52 UNKM  | FMRX 52 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 62 UNNM  | GMRX 62 UNNM  | FMRX 62 UNNM  | 420 | 194 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|                       | R 62 UNLM  | GMRX 62 UNLM  | FMRX 62 UNLM  |     |     |     |              |    | L | — | 5/8" |      |    |
|                       | R 62 UNKM  | GMRX 62 UNKM  | FMRX 62 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 82 UNNM  | GMRX 82 UNNM  | FMRX 82 UNNM  | 490 | 234 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                       | R 82 UNLM  | GMRX 82 UNLM  | FMRX 82 UNLM  |     |     |     |              |    | L | — | 7/8" |      |    |
|                       | R 82 UNKM  | GMRX 82 UNKM  | FMRX 82 UNKM  |     |     |     |              |    | K |   | K20  |      |    |
|                       | R 102 UNNM | GMRX 102 UNNM | FMRX 102 UNNM | 490 | 288 | 189 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|                       | R 102 UNLM | GMRX 102 UNLM | FMRX 102 UNLM |     |     |     |              |    | L | — | 7/8" |      |    |
|                       | R 102 UNKM | GMRX 102 UNKM | FMRX 102 UNKM |     |     |     |              |    | K |   | K20  |      |    |



**NYLON COM FIBRA DE VIDRO**

| REVESTIMENTO             | REFERÊNCIA | MR            |               | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------------------|------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                          |            |               |               |     |     |     |              |    | N | L | K    |      |    |
| NYLON COM FIBRA DE VIDRO | R 52 NNVN  | GMRX 52 NNVN  | FMRX 52 NNVN  | 350 | 164 | 110 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                          | R 52 NNVK  | GMRX 52 NNVK  | FMRX 52 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 62 NNVN  | GMRX 62 NNVN  | FMRX 62 NNVN  | 420 | 194 | 133 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|                          | R 62 NNVK  | GMRX 62 NNVK  | FMRX 62 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 82 NNVN  | GMRX 82 NNVN  | FMRX 82 NNVN  | 490 | 234 | 173 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                          | R 82 NNVK  | GMRX 82 NNVK  | FMRX 82 NNVK  |     |     |     |              |    | K |   | K20  |      |    |
|                          | R 102 NNVN | GMRX 102 NNVN | FMRX 102 NNVN | 490 | 288 | 189 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|                          | R 102 NNVK | GMRX 102 NNVK | FMRX 102 NNVK |     |     |     |              |    | K |   | K20  |      |    |

ACESSÓRIOS



TIPO DE MANCAL





# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 450 kg



## BORRACHA - INJETADA

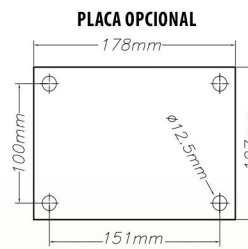
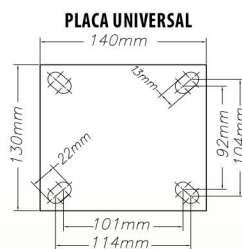
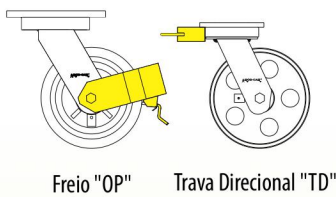
| REVESTIMENTO | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 BPN   | GMRA 52 BPN  | FMRA 52 BPN  | 200 | 186 | 109 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 BPL   | GMRA 52 BPL  | FMRA 52 BPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 BPK   | GMRA 52 BPK  | FMRA 52 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 BPN   | GMRA 62 BPN  | FMRA 62 BPN  | 250 | 209 | 128 | 6"<br>150mm  | 2" | N | — | 5/8" | 5/8" |    |
|              | R 62 BPL   | GMRA 62 BPL  | FMRA 62 BPL  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 BPK   | GMRA 62 BPK  | FMRA 62 BPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 BPN   | GMRA 82 BPN  | FMRA 82 BPN  | 300 | 257 | 166 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 BPL   | GMRA 82 BPL  | FMRA 82 BPL  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 BPK   | GMRA 82 BPK  | FMRA 82 BPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 BPN  | GMRA 102 BPN | FMRA 102 BPN | 350 | 308 | 195 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|              | R 102 BPL  | GMRA 102 BPL | FMRA 102 BPL |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 BPK  | GMRA 102 BPK | FMRA 102 BPK |     |     |     |              |    | K |   | K20  |      |    |



## BORRACHA - MOLDADA

| REVESTIMENTO | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 BFN   | GMRA 52 BFN  | FMRA 52 BFN  | 250 | 186 | 109 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 BFK   | GMRA 52 BFK  | FMRA 52 BFK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 BFN   | GMRA 62 BFN  | FMRA 62 BFN  | 300 | 206 | 128 | 6"<br>150mm  | 2" | N | — | 5/8" |      |    |
|              | R 62 BFK   | GMRA 62 BFK  | FMRA 62 BFK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 BFK   | GMRA 82 BFK  | FMRA 82 BFK  | 350 | 253 | 166 | 8"<br>200mm  | 2" | K |   | K20  | 5/8" |    |
|              | R 102 BFK  | GMRA 102 BFK | FMRA 102 BFK | 450 | 306 | 195 | 10"<br>250mm | 2" | K |   | K20  |      |    |

### ACESSÓRIOS



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 500 kg



## BORRACHA TERMOPLÁSTICA - INJETADA

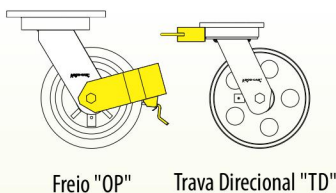
| REVESTIMENTO | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| BORRACHA     | R 52 TPN   | GMRA 52 TPN  | FMRA 52 TPN  | 220 | 186 | 109 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|              | R 52 TPL   | GMRA 52 TPL  | FMRA 52 TPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 52 TPK   | GMRA 52 TPK  | FMRA 52 TPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 TPN   | GMRA 62 TPN  | FMRA 62 TPN  | 270 | 209 | 128 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 5/8" |    |
|              | R 62 TPL   | GMRA 62 TPL  | FMRA 62 TPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 62 TPK   | GMRA 62 TPK  | FMRA 62 TPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 TPN   | GMRA 82 TPN  | FMRA 82 TPN  | 320 | 257 | 166 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 82 TPL   | GMRA 82 TPL  | FMRA 82 TPL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 82 TPK   | GMRA 82 TPK  | FMRA 82 TPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 TPN  | GMRA 102 TPN | FMRA 102 TPN | 370 | 308 | 195 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 102 TPL  | GMRA 102 TPL | FMRA 102 TPL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 102 TPK  | GMRA 102 TPK | FMRA 102 TPK |     |     |     |              |    | K |   | K20  |      |    |



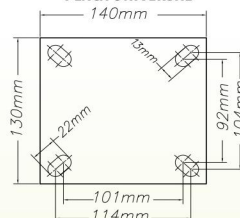
## POLIPROPILENO - INJETADO

| REVESTIMENTO  | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|---------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|               |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| POLIPROPILENO | R 52 PPN   | GMRA 52 PPN  | FMRA 52 PPN  | 325 | 186 | 109 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|               | R 52 PPL   | GMRA 52 PPL  | FMRA 52 PPL  |     |     |     |              |    | L | ■ |      |      |    |
|               | R 52 PPK   | GMRA 52 PPK  | FMRA 52 PPK  |     |     |     |              |    | K |   | K15  |      |    |
|               | R 62 PPN   | GMRA 62 PPN  | FMRA 62 PPN  | 350 | 209 | 128 | 6"<br>150mm  | 2" | N | ■ |      | 5/8" |    |
|               | R 62 PPL   | GMRA 62 PPL  | FMRA 62 PPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|               | R 62 PPK   | GMRA 62 PPK  | FMRA 62 PPK  |     |     |     |              |    | K |   |      |      |    |
|               | R 82 PPN   | GMRA 82 PPN  | FMRA 82 PPN  | 400 | 257 | 166 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|               | R 82 PPL   | GMRA 82 PPL  | FMRA 82 PPL  |     |     |     |              |    | L | ■ |      |      |    |
|               | R 82 PPK   | GMRA 82 PPK  | FMRA 82 PPK  |     |     |     |              |    | K |   | K20  |      |    |
|               | R 102 PPN  | GMRA 102 PPN | FMRA 102 PPN | 500 | 308 | 195 | 10"<br>250mm | 2" | N | ■ |      | 5/8" |    |
|               | R 102 PPL  | GMRA 102 PPL | FMRA 102 PPL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|               | R 102 PPK  | GMRA 102 PPK | FMRA 102 PPK |     |     |     |              |    | K |   |      |      |    |

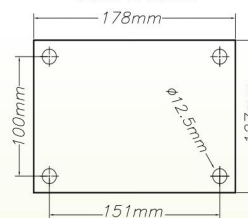
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL



# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 900 kg



## POLIURETANO - INJETADO

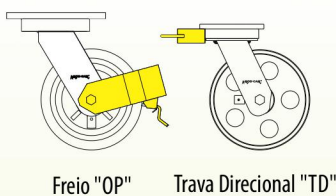
| REVESTIMENTO | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | mm   |    |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO  | R 52 UPN   | GMRA 52 UPN  | FMRA 52 UPN  | 350 | 186 | 109 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|              | R 52 UPL   | GMRA 52 UPL  | FMRA 52 UPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 52 UPK   | GMRA 52 UPK  | FMRA 52 UPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 UPN   | GMRA 62 UPN  | FMRA 62 UPN  | 400 | 209 | 128 | 6"<br>150mm  | 2" | N | ■ | 5/8" |      |    |
|              | R 62 UPL   | GMRA 62 UPL  | FMRA 62 UPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 62 UPK   | GMRA 62 UPK  | FMRA 62 UPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 UPN   | GMRA 82 UPN  | FMRA 82 UPN  | 500 | 257 | 166 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 82 UPL   | GMRA 82 UPL  | FMRA 82 UPL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 82 UPK   | GMRA 82 UPK  | FMRA 82 UPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 UPN  | GMRA 102 UPN | FMRA 102 UPN | 600 | 308 | 195 | 10"<br>250mm | 2" | N | ■ | 7/8" |      |    |
|              | R 102 UPL  | GMRA 102 UPL | FMRA 102 UPL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 102 UPK  | GMRA 102 UPK | FMRA 102 UPK |     |     |     |              |    | K |   | K20  |      |    |



## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | mm   |    |
|-----------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                       |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO - MOLDADO | R 42 UFK   | GMRA 42 UFK  | FMRA 42 UFK  | 500 | 159 | 89  | 4"<br>100mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|                       | R 52 UFN   | GMRA 52 UFN  | FMRA 52 UFN  | 600 | 186 | 109 | 5"<br>125mm  | 2" | N |   | 5/8" |      |    |
|                       | R 52 UFK   | GMRA 52 UFK  | FMRA 52 UFK  |     |     |     |              |    | K | ■ | K15  |      |    |
|                       | R 62 UFN   | GMRA 62 UFN  | FMRA 62 UFN  | 700 | 206 | 128 | 6"<br>150mm  | 2" | N |   | 5/8" |      |    |
|                       | R 62 UFK   | GMRA 62 UFK  | FMRA 62 UFK  |     |     |     |              |    | K |   | K15  |      |    |
|                       | R 82 UFK   | GMRA 82 UFK  | FMRA 82 UFK  | 900 | 253 | 166 | 8"<br>200mm  | 2" | K |   | K20  | 5/8" |    |
|                       | R 102 UFK  | GMRA 102 UFK | FMRA 102 UFK | 900 | 306 | 195 | 10"<br>250mm | 2" | K |   | K20  |      |    |

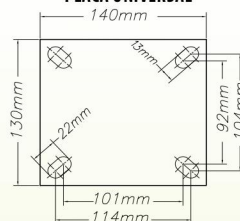
### ACESSÓRIOS



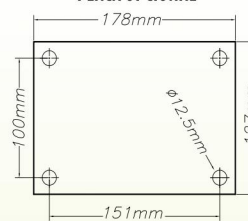
Freio "OP"

Trava Direcional "TD"

### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"



# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 800 kg



## POLIURETANO MOLDADO - NYLON

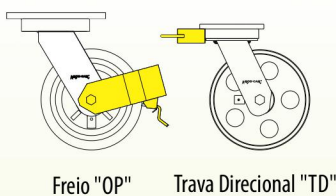
| REVESTIMENTO | REFERÊNCIA | MRA           |               | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |               |               |     |     |     |              |    | N | L | K    |      |    |
| POLIURETANO  | R 52 UNNM  | GMRA 52 UNNM  | FMRA 52 UNNM  | 475 | 186 | 109 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|              | R 52 UNLM  | GMRA 52 UNLM  | FMRA 52 UNLM  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 52 UNKM  | GMRA 52 UNKM  | FMRA 52 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 UNNM  | GMRA 62 UNNM  | FMRA 62 UNNM  | 550 | 206 | 128 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|              | R 62 UNLM  | GMRA 62 UNLM  | FMRA 62 UNLM  |     |     |     |              |    | L | — | 5/8" |      |    |
|              | R 62 UNKM  | GMRA 62 UNKM  | FMRA 62 UNKM  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 UNNM  | GMRA 82 UNNM  | FMRA 82 UNNM  | 700 | 253 | 166 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|              | R 82 UNLM  | GMRA 82 UNLM  | FMRA 82 UNLM  |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 82 UNKM  | GMRA 82 UNKM  | FMRA 82 UNKM  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 UNNM | GMRA 102 UNNM | FMRA 102 UNNM | 700 | 306 | 195 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|              | R 102 UNLM | GMRA 102 UNLM | FMRA 102 UNLM |     |     |     |              |    | L | — | 7/8" |      |    |
|              | R 102 UNKM | GMRA 102 UNKM | FMRA 102 UNKM |     |     |     |              |    | K |   | K20  |      |    |



## NYLON COM FIBRA DE VIDRO

| REVESTIMENTO             | REFERÊNCIA | MR            |               | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------------------|------------|---------------|---------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                          |            |               |               |     |     |     |              |    | N | L | K    |      |    |
| NYLON COM FIBRA DE VIDRO | R 52 NNVN  | GMRA 52 NNVN  | FMRA 52 NNVN  | 500 | 186 | 109 | 5"<br>125mm  | 2" | N | — | 5/8" | 1/2" | 62 |
|                          | R 52 NNVK  | GMRA 52 NNVK  | FMRA 52 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 62 NNVN  | GMRA 62 NNVN  | FMRA 62 NNVN  | 600 | 209 | 128 | 6"<br>150mm  | 2" | N | — | 5/8" | 1/2" |    |
|                          | R 62 NNVK  | GMRA 62 NNVK  | FMRA 62 NNVK  |     |     |     |              |    | K |   | K15  |      |    |
|                          | R 82 NNVN  | GMRA 82 NNVN  | FMRA 82 NNVN  | 800 | 257 | 166 | 8"<br>200mm  | 2" | N | — | 7/8" | 5/8" |    |
|                          | R 82 NNVK  | GMRA 82 NNVK  | FMRA 82 NNVK  |     |     |     |              |    | K |   | K20  |      |    |
|                          | R 102 NNVN | GMRA 102 NNVN | FMRA 102 NNVN | 800 | 308 | 195 | 10"<br>250mm | 2" | N | — | 7/8" | 5/8" |    |
|                          | R 102 NNVK | GMRA 102 NNVK | FMRA 102 NNVK |     |     |     |              |    | K |   | K20  |      |    |

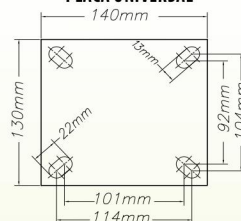
### ACESSÓRIOS



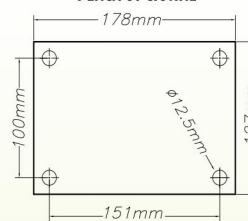
Freio "OP"

Trava Direcional "TD"

### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 900 kg



## POLIURETANO MOLDADO - ROUND - 60 SHORE D

| REVESTIMENTO              | REFERÊNCIA  | MR             |                | kg  | mm  | mm  | mm           | mm | mm | + | +   | +    | mm |
|---------------------------|-------------|----------------|----------------|-----|-----|-----|--------------|----|----|---|-----|------|----|
|                           |             |                |                |     |     |     |              |    |    |   |     |      |    |
| POLIURETANO MOLDADO ROUND | R 52 UFKRV  | GMRA 52 UFKRV  | FMRA 52 UFKRV  | 600 | 186 | 109 | 5"<br>125mm  | 2" | K  |   | K15 | 1/2" | 62 |
|                           | R 62 UFKRV  | GMRA 62 UFKRV  | FMRA 62 UFKRV  | 700 | 206 | 128 | 6"<br>150mm  | 2" | K  |   | K15 |      |    |
|                           | R 82 UFKRV  | GMRA 82 UFKRV  | FMRA 82 UFKRV  | 900 | 253 | 166 | 8"<br>200mm  | 2" | K  |   | K20 | 5/8" |    |
|                           | R 102 UFKRV | GMRA 102 UFKRV | FMRA 102 UFKRV | 900 | 306 | 195 | 10"<br>250mm | 2" | K  |   | K20 |      |    |



## POLIURETANO MOLDADO - ROUND - 90 SHORE A

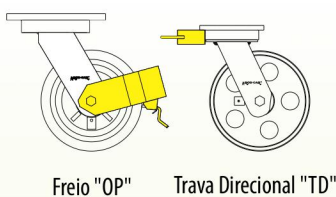
| REVESTIMENTO              | REFERÊNCIA  | MR             |                | kg  | mm  | mm  | mm           | mm | mm | + | +   | +    | mm |
|---------------------------|-------------|----------------|----------------|-----|-----|-----|--------------|----|----|---|-----|------|----|
|                           |             |                |                |     |     |     |              |    |    |   |     |      |    |
| POLIURETANO MOLDADO ROUND | R 52 UFKRA  | GMRA 52 UFKRA  | FMRA 52 UFKRA  | 600 | 186 | 109 | 5"<br>125mm  | 2" | K  |   | K15 | 1/2" | 62 |
|                           | R 62 UFKRA  | GMRA 62 UFKRA  | FMRA 62 UFKRA  | 700 | 206 | 128 | 6"<br>150mm  | 2" | K  |   | K15 |      |    |
|                           | R 82 UFKRA  | GMRA 82 UFKRA  | FMRA 82 UFKRA  | 900 | 253 | 166 | 8"<br>200mm  | 2" | K  |   | K20 | 5/8" |    |
|                           | R 102 UFKRA | GMRA 102 UFKRA | FMRA 102 UFKRA | 900 | 306 | 195 | 10"<br>250mm | 2" | K  |   | K20 |      |    |



## POLIURETANO MOLDADO - ALUMÍNIO - 80 SHORE A

| REVESTIMENTO | REFERÊNCIA | MR          |             | kg  | mm  | mm  | mm          | mm | mm | + | +   | +    | mm |
|--------------|------------|-------------|-------------|-----|-----|-----|-------------|----|----|---|-----|------|----|
|              |            |             |             |     |     |     |             |    |    |   |     |      |    |
| POLIURETANO  | R 52 UAK   | GMRA 52 UAK | FMRA 52 UAK | 600 | 186 | 109 | 5"<br>125mm | 2" | K  |   | K15 | 1/2" | 62 |
|              | R 62 UAK   | GMRA 62 UAK | FMRA 62 UAK | 700 | 209 | 128 | 6"<br>150mm | 2" | K  |   | K15 |      |    |
|              | R 82 UAK   | GMRA 82 UAK | FMRA 82 UAK | 900 | 257 | 166 | 8"<br>200mm | 2" | K  |   | K20 | 5/8" |    |

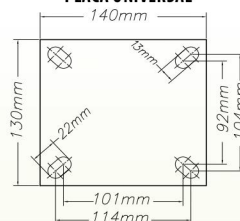
### ACESSÓRIOS



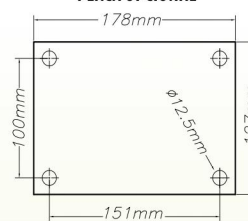
Freio "OP"

Trava Direcional "TD"

### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 700 kg



## NYLON - INJETADO

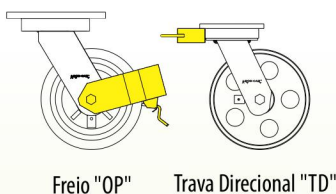
| REVESTIMENTO | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|              |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| NYLON        | R 52 NPN   | GMRA 52 NPN  | FMRA 52 NPN  | 350 | 186 | 109 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|              | R 52 NPL   | GMRA 52 NPL  | FMRA 52 NPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 52 NPK   | GMRA 52 NPK  | FMRA 52 NPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 62 NPN   | GMRA 62 NPN  | FMRA 62 NPN  | 400 | 209 | 128 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|              | R 62 NPL   | GMRA 62 NPL  | FMRA 62 NPL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|              | R 62 NPK   | GMRA 62 NPK  | FMRA 62 NPK  |     |     |     |              |    | K |   | K15  |      |    |
|              | R 82 NPN   | GMRA 82 NPN  | FMRA 82 NPN  | 500 | 257 | 166 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 82 NPL   | GMRA 82 NPL  | FMRA 82 NPL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 82 NPK   | GMRA 82 NPK  | FMRA 82 NPK  |     |     |     |              |    | K |   | K20  |      |    |
|              | R 102 NPN  | GMRA 102 NPN | FMRA 102 NPN | 600 | 308 | 195 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|              | R 102 NPL  | GMRA 102 NPL | FMRA 102 NPL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|              | R 102 NPK  | GMRA 102 NPK | FMRA 102 NPK |     |     |     |              |    | K |   | K20  |      |    |



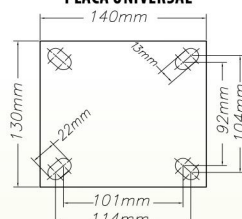
## NYLON INJETADO - INTEGRAL

| REVESTIMENTO     | REFERÊNCIA | MRA          |              | kg  | mm  | mm  | mm           | mm | + |   |      | +    | mm |
|------------------|------------|--------------|--------------|-----|-----|-----|--------------|----|---|---|------|------|----|
|                  |            |              |              |     |     |     |              |    | N | L | K    |      |    |
| NYLON - INTEGRAL | R 52 NNN   | GMRA 52 NNN  | FMRA 52 NNN  | 500 | 186 | 109 | 5"<br>125mm  | 2" | N | ■ | 5/8" | 1/2" | 62 |
|                  | R 52>NNL   | GMRA 52>NNL  | FMRA 52>NNL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|                  | R 52>NNK   | GMRA 52>NNK  | FMRA 52>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 62 NNN   | GMRA 62 NNN  | FMRA 62 NNN  | 600 | 209 | 128 | 6"<br>150mm  | 2" | N | ■ | 5/8" | 1/2" |    |
|                  | R 62>NNL   | GMRA 62>NNL  | FMRA 62>NNL  |     |     |     |              |    | L | ■ | 5/8" |      |    |
|                  | R 62>NNK   | GMRA 62>NNK  | FMRA 62>NNK  |     |     |     |              |    | K |   | K15  |      |    |
|                  | R 82 NNN   | GMRA 82 NNN  | FMRA 82 NNN  | 800 | 257 | 166 | 8"<br>200mm  | 2" | N | ■ | 7/8" | 5/8" |    |
|                  | R 82>NNL   | GMRA 82>NNL  | FMRA 82>NNL  |     |     |     |              |    | L | ■ | 7/8" |      |    |
|                  | R 82>NNK   | GMRA 82>NNK  | FMRA 82>NNK  |     |     |     |              |    | K |   | K20  |      |    |
|                  | R 102 NNN  | GMRA 102 NNN | FMRA 102 NNN | 800 | 308 | 195 | 10"<br>250mm | 2" | N | ■ | 7/8" | 5/8" |    |
|                  | R 102>NNL  | GMRA 102>NNL | FMRA 102>NNL |     |     |     |              |    | L | ■ | 7/8" |      |    |
|                  | R 102>NNK  | GMRA 102>NNK | FMRA 102>NNK |     |     |     |              |    | K |   | K20  |      |    |

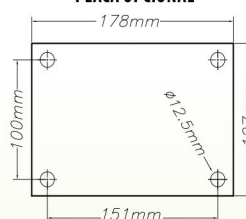
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"



# SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 900 kg



## CELERON

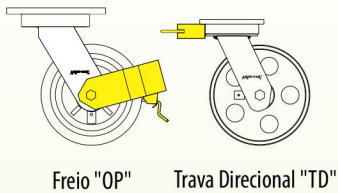
| REVESTIMENTO | REFERÊNCIA | MRA        |            | kg  | mm  | mm  | mm          | mm | + |   |      | mm   |    |
|--------------|------------|------------|------------|-----|-----|-----|-------------|----|---|---|------|------|----|
|              |            |            |            |     |     |     |             |    | L | - | 5/8" |      |    |
| CELERON      | R 52 CL    | GMRA 52 CL | FMRA 52 CL | 500 | 186 | 109 | 5"<br>125mm | 2" | L | - | 5/8" | 1/2" | 62 |
|              | R 52 CK    | GMRA 52 CK | FMRA 52 CK |     |     |     |             |    | K |   | K15  |      |    |
|              | R 62 CL    | GMRA 62 CL | FMRA 62 CL | 600 | 206 | 128 | 6"<br>150mm | 2" | L | - | 5/8" |      |    |
|              | R 62 CK    | GMRA 62 CK | FMRA 62 CK |     |     |     |             |    | K |   | K15  |      |    |
|              | R 82 CL    | GMRA 82 CL | FMRA 82 CL | 800 | 257 | 166 | 8"<br>200mm | 2" | L | - | 7/8" | 5/8" |    |
|              | R 82 CK    | GMRA 82 CK | FMRA 82 CK |     |     |     |             |    | K |   | K20  |      |    |



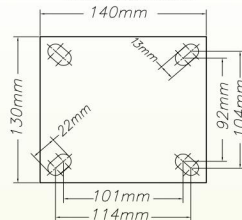
## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA | MRA         |             | kg  | mm  | mm  | mm          | mm | +   |     |      | mm   |    |
|--------------|------------|-------------|-------------|-----|-----|-----|-------------|----|-----|-----|------|------|----|
|              |            |             |             |     |     |     |             |    | N   | -   | 5/8" |      |    |
| FERRO        | R 52 FN    | GMRA 52 FN  | FMRA 52 FN  | 600 | 183 | 109 | 5"<br>125mm | 2" | N   | -   | 5/8" | 1/2" | 62 |
|              | R 52 FK    | GMRA 52 FK  | FMRA 52 FK  |     |     |     |             |    | K   |     | K15  |      |    |
|              | R 62 FN    | GMRA 62 FN  | FMRA 62 FN  | 700 | 206 | 128 | 6"<br>150mm | 2" | N   | -   | 5/8" |      |    |
|              | R 62 FK    | GMRA 62 FK  | FMRA 62 FK  |     |     |     |             |    | K   |     | K15  |      |    |
|              | R 82 FK    | GMRA 82 FK  | FMRA 82 FK  | 900 | 253 | 166 | 8"<br>200mm | 2" | K   |     | K20  | 5/8" |    |
|              | R 102 FK   | GMRA 102 FK | FMRA 102 FK |     |     |     |             |    | 900 | 306 | 195  |      |    |

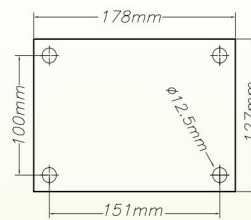
### ACESSÓRIOS



### PLACA UNIVERSAL



### PLACA OPCIONAL



### TIPO DE MANCAL

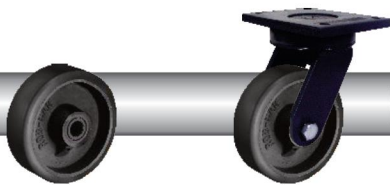
- Bucha de Nylon Grafitado
- Rolamentos de Roletes
- Rolamento blindado tipo "SKF"

# SÉRIE 3 - LINHA MPA - CARGAS DE ATÉ 1400 kg



## BORRACHA - MOLDADA

| REVESTIMENTO | REFERÊNCIA | MPA          |              | KG  | mm  | mm  | mm           | mm | mm | + |     | +    | mm |
|--------------|------------|--------------|--------------|-----|-----|-----|--------------|----|----|---|-----|------|----|
|              |            |              |              |     |     |     |              |    |    |   |     |      |    |
| BORRACHA     | R 63 BFK   | GMPA 63 BFK  | FMPA 63 BFK  | 400 | 220 | 133 | 6"<br>150mm  | 3" | K  |   | K25 | 3/4" | 78 |
|              | R 83 BFK   | GMPA 83 BFK  | FMPA 83 BFK  | 500 | 264 | 169 | 8"<br>200mm  | 3" | K  |   | K25 |      |    |
|              | R 103 BFK  | GMPA 103 BFK | FMPA 103 BFK | 600 | 322 | 202 | 10"<br>250mm | 3" | K  |   | K25 |      |    |
|              | R 123 BFK  | GMPA 123 BFK | FMPA 123 BFK | 750 | 370 | 230 | 12"<br>300mm | 3" | K  |   | K25 |      |    |



## BORRACHA - MOLDADA - PARA CONTAINER DE LIXO

| REVESTIMENTO | REFERÊNCIA | MPAL         |   | KG  | mm  | mm  | mm          | mm | mm | + |    | +    | mm |
|--------------|------------|--------------|---|-----|-----|-----|-------------|----|----|---|----|------|----|
|              |            |              |   |     |     |     |             |    |    |   |    |      |    |
| BORRACHA     | R 63 BFX   | GMPAL 63 BFX | - | 400 | 220 | 133 | 6"<br>150mm | 3" |    |   | 1" | 3/4" | 78 |



## POLIURETANO - MOLDADO

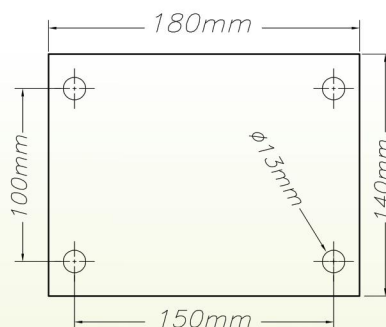
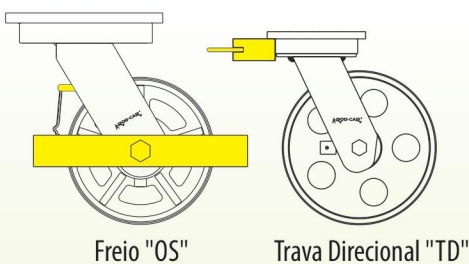
| REVESTIMENTO | REFERÊNCIA | MPA          |              | KG   | mm  | mm  | mm           | mm | mm | + |     | +    | mm |
|--------------|------------|--------------|--------------|------|-----|-----|--------------|----|----|---|-----|------|----|
|              |            |              |              |      |     |     |              |    |    |   |     |      |    |
| POLIURETANO  | R 63 UFK   | GMPA 63 UFK  | FMPA 63 UFK  | 1000 | 220 | 133 | 6"<br>150mm  | 3" | K  |   | K25 | 3/4" | 78 |
|              | R 83 UFK   | GMPA 83 UFK  | FMPA 83 UFK  | 1200 | 264 | 169 | 8"<br>200mm  | 3" | K  |   | K25 |      |    |
|              | R 103 UFK  | GMPA 103 UFK | FMPA 103 UFK | 1300 | 322 | 202 | 10"<br>250mm | 3" | K  |   | K25 |      |    |
|              | R 123 UFK  | GMPA 123 UFK | FMPA 123 UFK | 1400 | 370 | 230 | 12"<br>300mm | 3" | K  |   | K25 |      |    |

### RODAS TIPO 6x3 / 8x3 / 10x3 / 12x3

### PLACA

### TIPO DE MANCAL

#### ACESSÓRIOS



Rolamento blindado tipo "SKF"

# SÉRIE 3 - LINHA MPA - CARGAS DE ATÉ 1400 kg



## CELERON

| REVESTIMENTO | REFERÊNCIA | MPA        |            | kg   | mm  | mm  | mm          | mm | + | + | +   | mm   |    |
|--------------|------------|------------|------------|------|-----|-----|-------------|----|---|---|-----|------|----|
|              |            |            |            |      |     |     |             |    |   |   |     |      |    |
| CELERON      | R 63 CL    | GMPA 63 CL | FMPA 63 CL | 800  | 220 | 133 | 6"<br>150mm | 3" | L | - | 1"  | 3/4" | 78 |
|              | R 63 CK    | GMPA 63 CK | FMPA 63 CK |      |     |     |             |    | K |   | K25 |      |    |
|              | R 83 CL    | GMPA 83 CL | FMPA 83 CL | 1000 | 264 | 169 | 8"<br>200mm | 3" | L | - | 1"  |      |    |
|              | R 83 CK    | GMPA 83 CK | FMPA 83 CK |      |     |     |             |    | K |   | K25 |      |    |



## FERRO FUNDIDO

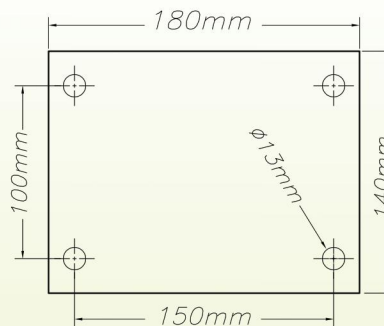
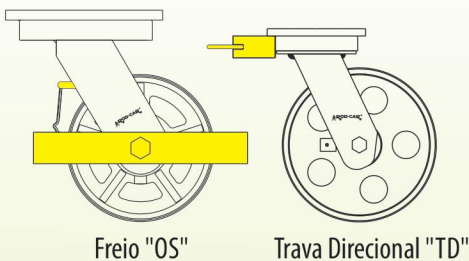
| REVESTIMENTO | REFERÊNCIA | MPA         |             | kg   | mm  | mm  | mm           | mm | +    | +   | +   | mm   |    |
|--------------|------------|-------------|-------------|------|-----|-----|--------------|----|------|-----|-----|------|----|
|              |            |             |             |      |     |     |              |    |      |     |     |      |    |
| FERRO        | R 63 FK    | GMPA 63 FK  | FMPA 63 FK  | 1000 | 220 | 133 | 6"<br>150mm  | 3" | K    |     | K25 | 3/4" | 78 |
|              | R 83 FK    | GMPA 83 FK  | FMPA 83 FK  |      |     |     |              |    | 1200 | 264 | 169 |      |    |
|              | R 103 FK   | GMPA 103 FK | FMPA 103 FK | 1300 | 322 | 202 | 10"<br>250mm | 3" | K    |     | K25 |      |    |
|              | R 123 FK   | GMPA 123 FK | FMPA 123 FK |      |     |     |              |    | 1400 | 370 | 230 |      |    |

### RODAS TIPO 6x3 / 8x3 / 10x3 / 12x3

### PLACA

### TIPO DE MANCAL

#### ACESSÓRIOS



Rolamento de Rolete



Rolamento blindado tipo "SKF"





## BORRACHA - MOLDADA

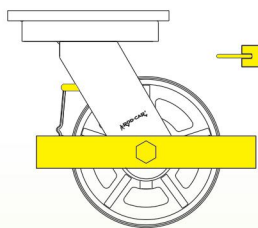
| REVESTIMENTO | REFERÊNCIA | PA          |             | kg   | mm  | mm  | mm           | mm | + | + | +   | mm   |    |
|--------------|------------|-------------|-------------|------|-----|-----|--------------|----|---|---|-----|------|----|
|              |            |             |             |      |     |     |              |    |   |   |     |      |    |
| BORRACHA     | R 63 BFK   | GPA 63 BFK  | FPA 63 BFK  | 400  | 230 | 131 | 6"<br>150mm  | 3" | K |   | K25 | 3/4" | 78 |
|              | R 83 BFK   | GPA 83 BFK  | FPA 83 BFK  | 500  | 275 | 169 | 8"<br>200mm  | 3" | K |   | K25 |      |    |
|              | R 103 BFK  | GPA 103 BFK | FPA 103 BFK | 600  | 325 | 195 | 10"<br>250mm | 3" | K |   | K25 |      |    |
|              | R 123 BFK  | GPA 123 BFK | FPA 123 BFK | 750  | 380 | 230 | 12"<br>300mm | 3" | K |   | K25 |      |    |
|              | R 104 BFK  | GPA 104 BFK | FPA 104 BFK | 800  | 325 | 195 | 10"<br>250mm | 4" | K |   | K25 |      |    |
|              | R 124 BFK  | GPA 124 BFK | FPA 124 BFK | 1000 | 380 | 230 | 12"<br>300mm | 4" | K |   | K25 | 110  |    |



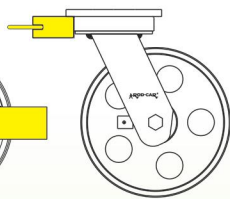
## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | PA          |             | kg   | mm  | mm  | mm           | mm | + | + | +   | mm   |    |
|-----------------------|------------|-------------|-------------|------|-----|-----|--------------|----|---|---|-----|------|----|
|                       |            |             |             |      |     |     |              |    |   |   |     |      |    |
| POLIURETANO - MOLDADO | R 63 UFK   | GPA 63 UFK  | FPA 63 UFK  | 1000 | 230 | 131 | 6"<br>150mm  | 3" | K |   | K25 | 3/4" | 78 |
|                       | R 83 UFK   | GPA 83 UFK  | FPA 83 UFK  | 1200 | 275 | 169 | 8"<br>200mm  | 3" | K |   | K25 |      |    |
|                       | R 103 UFK  | GPA 103 UFK | FPA 103 UFK | 1300 | 325 | 195 | 10"<br>250mm | 3" | K |   | K25 |      |    |
|                       | R 123 UFK  | GPA 123 UFK | FPA 123 UFK | 1400 | 380 | 230 | 12"<br>300mm | 3" | K |   | K25 |      |    |
|                       | R 104 UFK  | GPA 104 UFK | FPA 104 UFK | 1600 | 325 | 195 | 10"<br>250mm | 4" | K |   | K25 |      |    |
|                       | R 124 UFK  | GPA 124 UFK | FPA 124 UFK | 1800 | 380 | 230 | 12"<br>300mm | 4" | K |   | K25 | 110  |    |

### ACESSÓRIOS



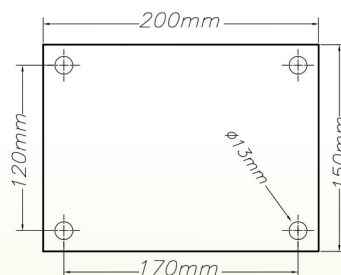
Freio "OS"



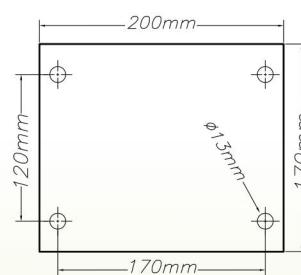
Trava Direcional "TD"

### PLACAS

#### RODAS TIPO 6x3 / 8x3 / 10x3 / 12x3



#### RODAS TIPO 10x4 / 12x4



### TIPO DE MANCAL



Rolamento blindado tipo "SKF"

# SÉRIE 3 e 4 - LINHA PA - CARGAS DE ATÉ 1700 kg



## CELERON

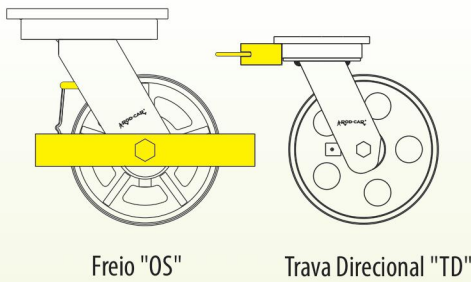
| REVESTIMENTO | REFERÊNCIA | PA         |            | KG   | mm  | mm  | mm           | mm | mm | +  |     |      | mm | mm  |
|--------------|------------|------------|------------|------|-----|-----|--------------|----|----|----|-----|------|----|-----|
|              |            |            |            |      |     |     |              |    |    |    |     |      |    |     |
| CELERON      | R 63 CL    | GPA 63 CL  | FPA 63 CL  | 800  | 230 | 131 | 6"<br>150mm  | 3" | L  | -  | 1"  | 3/4" | 78 |     |
|              | R 63 CK    | GPA 63 FK  | FPA 63 CK  |      |     |     |              |    | K  | ☺☺ | K25 |      |    |     |
|              | R 83 CL    | GPA 83 CL  | FPA 83 CL  | 1000 | 275 | 169 | 8"<br>200mm  | 3" | L  | -  | 1"  |      |    |     |
|              | R 83 CK    | GPA 83 CK  | FPA 83 CK  |      |     |     |              |    | K  | ☺☺ | K25 |      |    |     |
|              | R 124 CK   | GPA 124 CK | FPA 124 CK | 1700 | 380 | 230 | 12"<br>300mm | 4" | K  | ☺☺ | K25 |      |    | 110 |



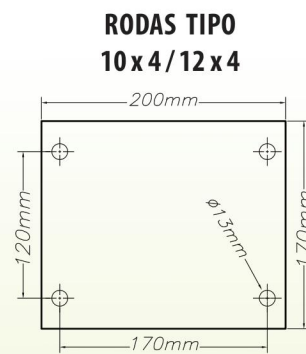
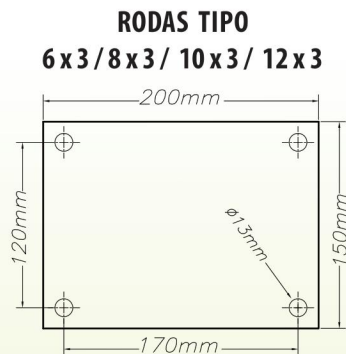
## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA | PA         |            | KG   | mm  | mm  | mm           | mm | mm   | +   |     |      | mm | mm           |
|--------------|------------|------------|------------|------|-----|-----|--------------|----|------|-----|-----|------|----|--------------|
|              |            |            |            |      |     |     |              |    |      |     |     |      |    |              |
| FERRO        | R 63 FK    | GPA 63 FK  | FPA 63 FK  | 1000 | 230 | 131 | 6"<br>150mm  | 3" | K    | ☺☺  | K25 | 3/4" | 78 |              |
|              | R 83 FK    | GPA 83 FK  | FPA 83 FK  |      |     |     |              |    | 1200 | 275 | 169 |      |    | 8"<br>200mm  |
|              | R 103 FK   | GPA 103 FK | FPA 103 FK | 1300 | 325 | 195 | 10"<br>250mm | 3" | K    | ☺☺  | K25 |      |    |              |
|              | R 104 FK   | GPA 104 FK | FPA 104 FK |      |     |     |              |    | 1600 | 325 | 195 |      |    | 10"<br>250mm |

### ACESSÓRIOS



### PLACAS



### TIPO DE MANCAL



# SÉRIE 3 - LINHA DPA - CARGAS DE ATÉ 2800 kg



## BORRACHA - MOLDADA

| REVESTIMENTO       | REFERÊNCIA | DPA          |              | KG   | mm  | mm  | mm  | mm | mm | +   |      |     | mm |
|--------------------|------------|--------------|--------------|------|-----|-----|-----|----|----|-----|------|-----|----|
|                    |            |              |              |      |     |     |     |    |    |     |      |     |    |
| BORRACHA - MOLDADA | R 63 BFK   | GDPA 63 BFK  | FDPA 63 BFK  | 800  | 230 | 131 | 6"  | 3" | K  | K25 | 3/4" | 156 |    |
|                    | R 83 BFK   | GDPA 83 BFK  | FDPA 83 BFK  | 1000 | 275 | 169 | 8"  |    |    |     |      |     |    |
|                    | R 103 BFK  | GDPA 103 BFK | FDPA 103 BFK | 1200 | 325 | 195 | 10" |    |    |     |      |     |    |
|                    | R 123 BFK  | GDPA 123 BFK | FDPA 123 BFK | 1500 | 375 | 287 | 12" |    |    |     |      |     |    |



## POLIURETANO - MOLDADO

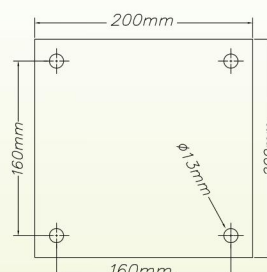
| REVESTIMENTO          | REFERÊNCIA | DPA          |              | KG   | mm  | mm  | mm  | mm | mm | +   |      |     | mm |
|-----------------------|------------|--------------|--------------|------|-----|-----|-----|----|----|-----|------|-----|----|
|                       |            |              |              |      |     |     |     |    |    |     |      |     |    |
| POLIURETANO - MOLDADO | R 63 UFK   | GDPA 63 UFK  | FDPA 63 UFK  | 2000 | 230 | 131 | 6"  | 3" | K  | K25 | 3/4" | 156 |    |
|                       | R 83 UFK   | GDPA 83 UFK  | FDPA 83 UFK  | 2400 | 275 | 169 | 8"  |    |    |     |      |     |    |
|                       | R 103 UFK  | GDPA 103 UFK | FDPA 103 UFK | 2600 | 325 | 195 | 10" |    |    |     |      |     |    |
|                       | R 123 UFK  | GDPA 123 UFK | FDPA 123 UFK | 2800 | 375 | 287 | 12" |    |    |     |      |     |    |



## FERRO FUNDIDO

| REVESTIMENTO    | REFERÊNCIA | DPA         |             | KG   | mm  | mm  | mm  | mm | mm | +   |      |     | mm |
|-----------------|------------|-------------|-------------|------|-----|-----|-----|----|----|-----|------|-----|----|
|                 |            |             |             |      |     |     |     |    |    |     |      |     |    |
| FERRO - FUNDIDO | R 63 FK    | GDPA 63 FK  | FDPA 63 FK  | 2000 | 230 | 131 | 6"  | 3" | K  | K25 | 3/4" | 156 |    |
|                 | R 83 FK    | GDPA 83 FK  | FDPA 83 FK  | 2400 | 275 | 169 | 8"  |    |    |     |      |     |    |
|                 | R 103 FK   | GDPA 103 FK | FDPA 103 FK | 2600 | 325 | 195 | 10" |    |    |     |      |     |    |
|                 | R 123 FK   | GDPA 123 FK | FDPA 123 FK | 2800 | 375 | 287 | 12" |    |    |     |      |     |    |

### PLACA



### RODAS TIPO 6X3 / 8X3 / 10X3

### TIPO DE MANCAL



Rolamento blindado tipo "SKF"



# SÉRIE 3 e 4 - LINHA PAM - CARGAS DE ATÉ 750 kg



## BORRACHA - MOLDADA

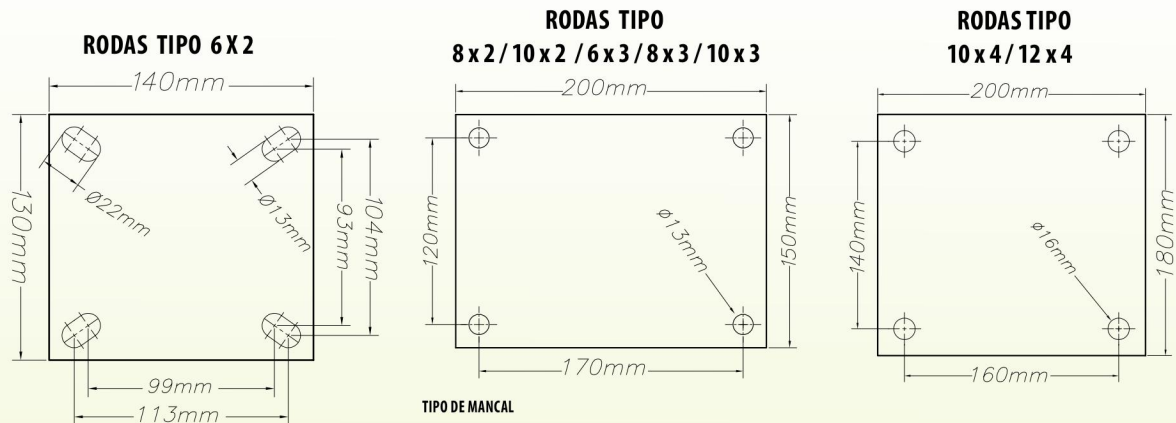
| REVESTIMENTO       | REFERÊNCIA | PAM          |              | CARGA DA MOLLA<br>KG | mm<br> | mm<br> |              |    |   |  |     |      | mm<br> |
|--------------------|------------|--------------|--------------|----------------------|--------|--------|--------------|----|---|--|-----|------|--------|
|                    |            |              |              |                      |        |        |              |    | K |  | K25 |      |        |
| BORRACHA - MOLDADA | R 63 BFK   | GPAM 63 BFK  | FPAM 63 BFK  | 500                  | 323    | 174    | 6"<br>150mm  | 3" | K |  | K25 | 3/4" | 78     |
|                    | R 103 BFK  | GPAM 103 BFK | FPAM 103 BFK | 500                  | 349    | 200    | 10"<br>250mm |    | K |  | K25 |      |        |
|                    | R 104 BFK  | GPAM 104 BFK | FPAM 104 BFK | 750                  | 372    | 226    | 10"<br>250mm | 4" | K |  | K25 |      | 110    |
|                    | R 124 BFK  | GPAM 124 BFK | PAM 124 BFK  | 750                  | 398    | 252    | 12"<br>300mm |    | K |  | K25 |      |        |



## POLIURETANO - MOLDADO

| REVESTIMENTO          | REFERÊNCIA | PAM          |              | CARGA DA MOLLA<br>KG | mm<br> | mm<br> |              |    |   |  |     |      | mm<br> |
|-----------------------|------------|--------------|--------------|----------------------|--------|--------|--------------|----|---|--|-----|------|--------|
|                       |            |              |              |                      |        |        |              |    | K |  | K25 |      |        |
| POLIURETANO - MOLDADO | R 62 UFK   | GPAM 62 UFK  | FPAM 62 UFK  | 130                  | 225    | 131    | 6"<br>150mm  | 2" | K |  | K15 | 5/8" | 62     |
|                       | R 82 UFK   | GPAM 82 UFK  | FPAM 82 UFK  | 180                  | 289    | 171    | 8"<br>200mm  |    | K |  | K20 |      |        |
|                       | R 102 UFK  | GPAM 102 UFK | FPAM 102 UFK | 250                  | 340    | 200    | 10"<br>250mm |    | K |  | K20 |      |        |
|                       | R 63 UFK   | GPAM 63 UFK  | FPAM 63 UFK  | 400                  | 232    | 147    | 6"<br>150mm  | 3" | K |  | K25 | 3/4" | 78     |
|                       | R 83 UFK   | GPAM 83 UFK  | FPAM 83 UFK  | 500                  | 323    | 172    | 8"<br>200mm  |    | K |  | K25 |      |        |
|                       | R 103 UFK  | GPAM 103 UFK | FPAM 103 UFK | 500                  | 349    | 198    | 10"<br>250mm |    | K |  | K25 |      |        |
|                       | R 104 UFK  | GPAM 104 UFK | FPAM 104 UFK | 750                  | 370    | 224    | 10"<br>250mm | 4" | K |  | K25 | 110  |        |
|                       | R 124 UFK  | GPAM 124 UFK | FPAM 124 UFK | 750                  | 396    | 250    | 12"<br>300mm |    | K |  | K25 |      |        |

### PLACAS



TIPO DE MANCAL



Rolamento blindado tipo "SKF"

# SÉRIE 4 - LINHA PAE - CARGAS DE ATÉ 2000 kg



## BORRACHA - MOLDADA

| REVESTIMENTO     | REFERÊNCIA | PAE          |              | KG   | mm  | mm  | mm           | mm | mm | + |     |      | mm  |
|------------------|------------|--------------|--------------|------|-----|-----|--------------|----|----|---|-----|------|-----|
|                  |            |              |              |      |     |     |              |    |    |   |     |      |     |
| BORRACHA MOLDADA | R 104 BFK  | GPAE 104 BFK | FPAE 104 BFK | 800  | 325 | 195 | 10"<br>250mm | 4" | K  |   | K25 | 3/4" | 110 |
|                  | R 124 BFK  | GPAE 124 BFK | FPAE 124 BFK | 1000 | 380 | 230 | 12"<br>300mm |    | K  |   | K25 |      |     |



## POLIURETANO - MOLDADO

| REVESTIMENTO        | REFERÊNCIA | PAE          |              | KG   | mm  | mm  | mm           | mm | mm | + |     |      | mm  |
|---------------------|------------|--------------|--------------|------|-----|-----|--------------|----|----|---|-----|------|-----|
|                     |            |              |              |      |     |     |              |    |    |   |     |      |     |
| POLIURETANO MOLDADO | R 104 UFK  | GPAE 104 UFK | FPAE 104 UFK | 1800 | 335 | 195 | 10"<br>250mm | 4" | K  |   | K25 | 3/4" | 110 |
|                     | R 124 UFK  | GPAE 124 UFK | FPAE 124 UFK | 2000 | 380 | 230 | 12"<br>300mm |    | K  |   | K25 |      |     |



## CELERON

| REVESTIMENTO | REFERÊNCIA | PAE         |             | KG   | mm  | mm  | mm           | mm | mm | + |     |      | mm  |
|--------------|------------|-------------|-------------|------|-----|-----|--------------|----|----|---|-----|------|-----|
|              |            |             |             |      |     |     |              |    |    |   |     |      |     |
| CELERON      | R 124 CK   | GPAE 124 CK | FPAE 124 CK | 1600 | 380 | 230 | 12"<br>300mm | 4" | K  |   | K25 | 3/4" | 110 |

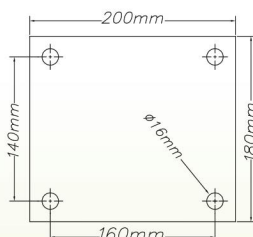


## FERRO FUNDIDO

| REVESTIMENTO | REFERÊNCIA | PAE         |             | KG   | mm  | mm  | mm           | mm | mm | + |     |      | mm  |
|--------------|------------|-------------|-------------|------|-----|-----|--------------|----|----|---|-----|------|-----|
|              |            |             |             |      |     |     |              |    |    |   |     |      |     |
| FERRO        | R 104 FK   | GPAE 104 FK | FPAE 104 FK | 1800 | 335 | 195 | 10"<br>250mm | 4" | K  |   | K25 | 3/4" | 110 |

PLACA

RODAS TIPO 10 x 4 / 12 x 4



TIPO DE MANCAL



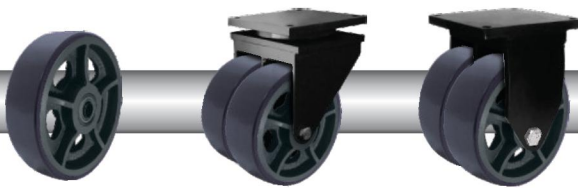
Rolamento blindado tipo "SKF"

# SÉRIE 4 - LINHA DPAE - CARGAS DE ATÉ 3800 kg



## POLIURETANO - MOLDADO

| REVISTIMENTO        | REFERÊNCIA       | DPAE          |               | CARGA DA MOLA<br>KG | mm  | mm  | mm           | mm | + | +  | +   | mm |     |
|---------------------|------------------|---------------|---------------|---------------------|-----|-----|--------------|----|---|----|-----|----|-----|
|                     |                  |               |               |                     |     |     |              |    |   |    |     |    |     |
| POLIURETANO MOLDADO | <b>R 123 UFK</b> | GDPAE 123 UFK | FDPAE 123 UFK | 2800                | 410 | 230 | 12"<br>300mm | 3" | K | 25 | K25 | 25 | 156 |
|                     | <b>R 104 UFK</b> | GDPAE 104 UFK | FDPAE 104 UFK | 3400                | 385 | 195 | 10"<br>250mm | 4" | K | 25 | K30 | 25 | 220 |
|                     | <b>R 124 UFK</b> | GDPAE 124 UFK | FDPAE 124 UFK | 3800                | 410 | 230 | 12"<br>300mm |    | K | 25 | K30 |    |     |



## FERRO FUNDIDO

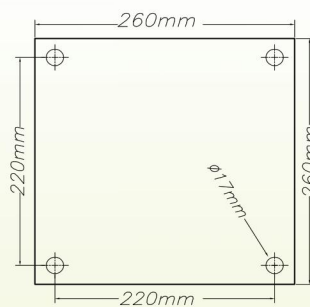
| REVISTIMENTO  | REFERÊNCIA      | DPAE         |              | CARGA DA MOLA<br>KG | mm  | mm  | mm           | mm | + | +  | +   | mm |     |
|---------------|-----------------|--------------|--------------|---------------------|-----|-----|--------------|----|---|----|-----|----|-----|
|               |                 |              |              |                     |     |     |              |    |   |    |     |    |     |
| FERRO FUNDIDO | <b>R 123 FK</b> | GDPAE 123 FK | FDPAE 123 FK | 2800                | 410 | 230 | 12"<br>300mm | 3" | K | 25 | K25 | 25 | 156 |
|               | <b>R 104 FK</b> | GDPAE 104 FK | FDPAE 104 FK | 3400                | 385 | 195 | 10"<br>250mm | 4" | K | 25 | K25 | 25 | 220 |



## CELERON

| REVISTIMENTO | REFERÊNCIA      | DPAE         |              | CARGA DA MOLA<br>KG | mm  | mm  | mm           | mm | + | +  | +   | mm |     |
|--------------|-----------------|--------------|--------------|---------------------|-----|-----|--------------|----|---|----|-----|----|-----|
|              |                 |              |              |                     |     |     |              |    |   |    |     |    |     |
| CELERON      | <b>R 124 CK</b> | GDPAE 124 CK | FDPAE 124 CK | 3400                | 410 | 230 | 12"<br>300mm | 4" | K | 25 | K30 | 25 | 220 |

### PLACA



### TIPO DE MANCAL



Rolamento blindado tipo "SKF"

**RODAS TIPO**  
12 x 3 / 10 x 4 / 12 x 4



# SÉRIE IR - MPA - PN PNEUMÁTICA - CARGAS DE ATÉ 450 kg



## PNEUMÁTICA - LINHA IR

| REVESTIMENTO | REFERÊNCIA | IR           |              | KG  | mm  | mm  |       |      | + |   |              | mm   |    |
|--------------|------------|--------------|--------------|-----|-----|-----|-------|------|---|---|--------------|------|----|
|              |            |              |              |     |     |     |       |      |   |   |              |      |    |
| PNEUMÁTICA   | R 254 PNN  | GIR 254 PNN  | FIR 254 PNN  | 100 | 252 | 165 | 214mm | 60mm | N | - | 3/4"<br>7/8" | 5/8" | 72 |
|              | R 254 PNL  | GIR 254 PNL  | FIR 254 PNL  |     |     |     |       |      | L | - | 3/4"         |      |    |
|              | R 254 PNLX | GIR 254 PNLX | FIR 254 PNLX |     |     |     |       |      | L | - | 3/4"         |      |    |
|              | R 254 PNK  | GIR 254 PNK  | FIR 254 PNK  |     |     |     |       |      | K |   | K20          |      |    |

| PNEUMÁTICA | REFERÊNCIA | KG  |        |       | mm | + |   |     | mm |              |    |
|------------|------------|-----|--------|-------|----|---|---|-----|----|--------------|----|
|            | R 354 PNN  |     |        |       |    | N | - | 1"  |    | 3/4"<br>7/8" | 72 |
|            | R 354 PNL  |     |        |       |    | L | - | 1"  |    | 7/8"         |    |
|            | R 354 PNLX |     |        |       |    | L | - | 1"  |    |              |    |
|            | R 354 PNK  |     |        |       |    | K |   | K20 |    | 5/8"         |    |
|            |            | 150 | 270 mm | 80 mm |    |   |   |     |    |              |    |



## RODA DE PNEU MACIÇO

| PNEU MACIÇO | REFERÊNCIA         | IR                   |                      | KG  | mm  | mm  |       |      | + |  |     | mm   |    |
|-------------|--------------------|----------------------|----------------------|-----|-----|-----|-------|------|---|--|-----|------|----|
|             |                    |                      |                      |     |     |     |       |      |   |  |     |      |    |
|             | R 254 PNK - MACIÇO | GIR 254 PNK - MACIÇO | FIR 254 PNK - MACIÇO | 100 | 252 | 165 | 214mm | 64mm | K |  | K20 | 5/8" | 72 |



## PNEUMÁTICA LINHA MPA

| PNEUMÁTICA | REFERÊNCIA | MPA          |              | KG  | mm  | mm  |       |      | + |   |     | mm   |     |
|------------|------------|--------------|--------------|-----|-----|-----|-------|------|---|---|-----|------|-----|
|            |            |              |              |     |     |     |       |      |   |   |     |      |     |
|            | R 358 PNL  | GMPA 358 PNL | FMPA 358 PNL | 220 | 453 | 275 | 380mm | 88mm | L | - | 1"  | 3/4" | 110 |
|            | R 358 PNK  | GMPA 358 PNK | FMPA 358 PNK | 220 | 453 | 275 | 380mm | 88mm | K |   | K25 | 3/4" |     |



## RODAS DE PNEU MACIÇO - ESTAMPADAS

| PNEU MACIÇO | REFERÊNCIA | MPA          |              | KG  | mm  | mm  |       |    | + |   |     | mm   |     |
|-------------|------------|--------------|--------------|-----|-----|-----|-------|----|---|---|-----|------|-----|
|             |            |              |              |     |     |     |       |    |   |   |     |      |     |
|             | R 123 BDL  | GMPA 123 BDL | FMPA 123 BDL | 350 | 370 | 230 | 310mm | 3" | L | - | 1"  | 3/4" | 78  |
|             | R 123 BDK  | GMPA 123 BDK | FMPA 123 BDK |     |     |     |       |    | K |   | K25 |      |     |
|             | R 153 BDL  | GMPA 153 BDL | FMPA 153 BDL | 450 | 458 | 280 | 350mm | 3" | L | - | 1"  | 3/4" | 110 |
|             | R 153 BDK  | GMPA 153 BDK | FMPA 153 BDK |     |     |     |       |    | K |   | K25 |      |     |



# SÉRIE ESPECIAL



Giratório c/ placa furação especial  
REF.: GIRA 62 UFK  
Aplic.: Racks automobilísticos e carrinhos industriais



Giratório c/freio central  
REF.: GPAM 82 UFK  
Aplic.: Indústrias automobilísticas



Núcleo de nylon revest. em poliuretano  
REF.: R 82 UNK  
Aplic.: Paletes, frigoríficos e indústrias em geral



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Aplic.: Indústrias em geral



Fixo com freio  
REF.: FMRAOP 62 UFK  
Aplic.: Carrinhos industriais



REF.: R 414 FNV  
Aplic.: Trilhos e indústrias em geral



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Aplic.: Automobilísticos, indústrias aeronáuticas em geral.



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