

Catálogo de RODAS E RODÍZIOS



20
21

ROD-CAR
Desde 1966



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Escolhendo o rodízio

Calcule a carga requerida por roda ou rodízio para equipamento de 4 rodas.
A capacidade indicada pela Rod-Car[®] é a carga máxima que uma roda ou rodízio pode suportar sem prejuízo de seu desempenho.



Considere as temperaturas e escolha o revestimento correto.

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

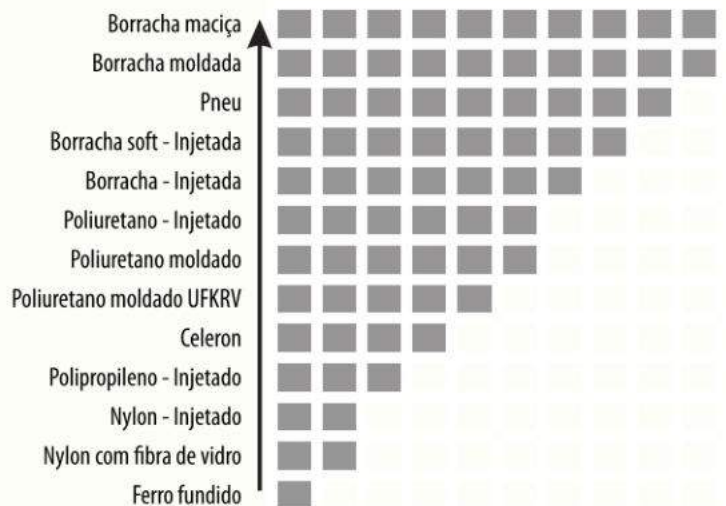


MAIORES INIMIGOS DO SEU RODÍZIO

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

Esforço de rolagem

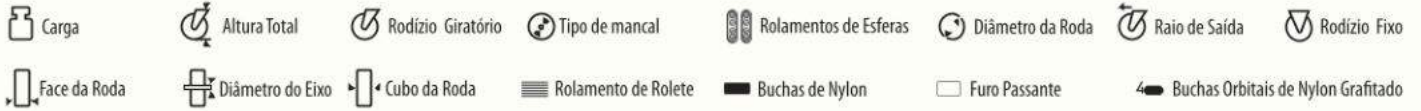
Considerando uma mesma carga (Kg) aplicada para todos os tipos de revestimento



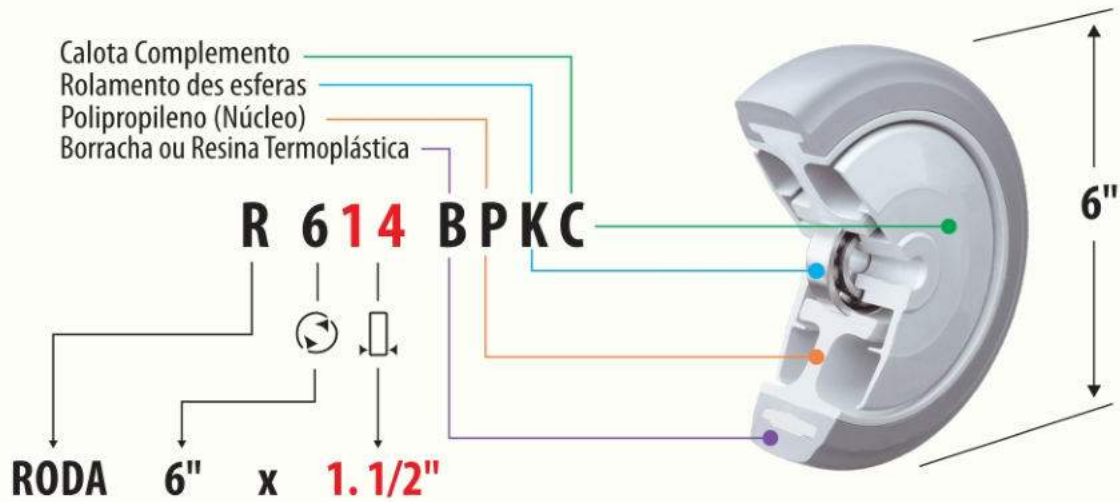
Esforço de Rolagem é a força necessária para puxar /empurrar uma determinada carga numa velocidade constante de 4km/h. É calculada para pisos ásperos de concreto regulares e lisos para rodas de borracha natural. Em pisos ásperos, multiplique o esforço por 5, no mínimo.

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.

Simbologia



Nomenclatura, sua composição e abreviaturas



TIPO	LINHA			INOX	FREIO / TRAVA	MEDIDA / SÉRIE			REVESTIMENTO	NÚCLEO	MANCAL C/ OU S/ CALOTA	
G	L	R				6	1	4	B	P	K	C

TIPO
G - Giratório
F - Fixo

LINHA
LR - Leve Reforçada (Institucional ou Industrial)
RR - Rosca
ELS - Espiga Lisa c/ Soquete
HR - Expansivo (Hospitalar c/ rosca)
IR - Intermediária Reforçada
IRR - Intermediária Reforçada c/ espiga
MRA - Média Reforçada Axial
MR - Média Reforçada
MPA - Meio Pesada Axial
PA - Pesada Axial
PAE - Pesada Axial Extra
PAM - Pesada Axial com Mola
DPA - Duplo Pesada Axial
DPAE - Duplo Pesada Axial Extra

X - Garfos em Inox

FREIO/TRAVA
OA - Freio Antigo
ON - Freio Nariz
OT - Freio Trava
OS - Freio Sapata
OP - Freio Pedal
TD - Trava Direcional

MEDIDA
 Ø" Face Pol. Face mm
158 - Exceção a regra = 17mm
Ø"10 - Exceção a regra = 19,05mm
Ø"12 - 3,175 x 2 + 25,4 = 31,75mm
Ø"14 - 3,175 x 4 + 25,4 = 38,1mm
Ø"16 - 3,175 x 6 + 25,4 = 44,45mm
Ø"2 - 2 x 25,4 = 50,8mm
Ø"3 - 3 x 25,4 = 76,2mm
Ø"4 - 4 x 25,4 = 101,6mm
 * Esta regra não se aplica a linha Pneumática

REVESTIMENTO / RODA INTEGRAL
B - BORRACHA OU RESINA TERMOPLÁSTICA - CINZA
S - SOFT (MACIA) - CINZA CLARA
U - POLIURETANO - LARANJA / AZUL
N - NYLON - BRANCO
P - POLIPROPILENO - PRETO
C - CELERON - MARRON
F - FERRO FUNDIDO - PRETO
PN - PNEUMÁTICO

NÚCLEO
A - ALUMÍNIO
D - DESMONTÁVEL
E - ESTAMPADO
F - FERRO FUNDIDO
N - NYLON
P - POLIPROPILENO

TIPOS DE MANCAIS / ROLAMENTOS
 * - FURO PASSANTE
N - BUCHA DE NYLON GRAFITADO
L - ROLETE
K - ROLAMENTO TIPO "SKF"
KC - ROLAMENTO TIPO "SKF" COM CALOTA
NC - BUCHAS ORBITAIS DE NYLON GRAFITADO COM CALOTA



GMPAE 124 UFK GPA 104 FK GMR 62 BPK GRRON 412 BPKC

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

SÉRIE 10 e 158 - LINHAS -LR/RR/HR - CARGAS DE ATÉ 80 kg



REVESTIMENTOS	REFERÊNCIA	⌚	⌚	⌚	⌚	⌚	⌚	kg	in/mm	in	mm	mm	mancal	in	mm	
		LR		RR		HR										
GEL	R 210 GEL	GLR 210 GEL	FLR 210 GEL	GRR 210 GEL	FRR 210 GEL	-	-	30	2" 50mm	3/4"	70	49	□	1/4"	1/4"	28
	R 310 GEL	GLR 310 GEL	FLR 310 GEL	GRR 310 GEL	FRR 310 GEL	-	-	40	3" 75mm	3/4"	100	64	□	1/4"	1/4"	28
BORRACHA	R 210 BP	GLR 210 BP	FLR 210 BP	GRR 210 BP	FRR 210 BP	GHR 210 BP	FHR 210 BP	45	2" 50mm	3/4"	70	49	□	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	3" 75mm	3/4"	100	64	□	1/4"	1/4"	28
BLACK	-	GLRB 210 BPA	FLRB 210 BPA	-	-	-	-	45	2" 50mm	3/4"	70	49	□	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	2" 50mm	3/4"	70	49	□	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	3" 75mm	3/4"	100	64	□	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	2" 50mm	3/4"	70	49	□	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	3" 75mm	3/4"	100	64	□	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	2" 50mm	3/4"	70	49	□	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	3" 75mm	7/8"	100	64	□	1/4"	1/4"	24
NYLON	R 210 NP	GLR 210 NP	FLR 210 NP	GRR 210 NP	FRR 210 NP	GHR 210 NP	FHR 210 NP	60	2" 50mm	3/4"	70	49	□	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	3" 75mm	3/4"	100	64	□	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	2" 50mm	3/4"	70	49	□	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	3" 75mm	3/4"	100	64	□	1/4"	1/4"	28
CELERON	R 210 C	GLR 210 C	FLR 210 C	GRR 210 C	FRR 210 C	GHR 210 C	FHR 210 C	80	2" 50mm	3/4"	70	49	□	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	2" 50mm	3/4"	70	49	□	1/4"	1/4"	28



SÉRIE - 158 - CARGAS DE ATÉ 150 kg

REFERÊNCIA	⌚	⌚	kg	mm	mm	mm	mm	mancal	in	mm	
R 158 GEL	GLR 158 GEL ZC	GRR 158 GEL ZC	30	41mm	17mm	58	45	□	1/4"	1/4"	20
R 158 GEL	GLR 158 GEL BC	GRR 158 GEL BC	30	41mm	17mm	58	45	□	1/4"	1/4"	20
R 158 N	GLR 158 N ZC	GRR 158 N ZC	125	41mm	17mm	58	45	□	1/4"	1/4"	40
R 158 N	GLR 158 N BC	GRR 158 N BC	125	41mm	17mm	58	45	□	1/4"	1/4"	20
R 158 Z	GLR 158 Z ZC	GRR 158 Z ZC	150	41mm	17mm	58	45	□	1/4"	1/4"	20
R 158 Z	GLR 158 Z BC	GRR 158 Z BC	150	41mm	17mm	58	45	□	1/4"	1/4"	20



ACESSÓRIOS

PLACA SÉRIE 10 E 158	OPÇÃO DE FREIO	FIXAÇÃO POR ESPIGA	CABEÇOTES						
	<p>FREIO "0"</p>	<p>Fixação Espiga Rosca</p> <table border="1"> <tr> <td>Linha</td> <td>Ø x h</td> </tr> <tr> <td>RR</td> <td>3/8" x 19 mm</td> </tr> <tr> <td>HR</td> <td>3/8" x 38 mm</td> </tr> </table>	Linha	Ø x h	RR	3/8" x 19 mm	HR	3/8" x 38 mm	<p>PLACA - LR</p> <p>ROSCA - RR</p> <p>GRATORIO - G FIXO - F GRATORIO - G FIXO - F</p>
Linha	Ø x h								
RR	3/8" x 19 mm								
HR	3/8" x 38 mm								

SÉRIE 10 e 158 - LINHAS - ELS - CARGAS DE ATÉ 80 kg



REVESTIMENTOS	REFERÊNCIA		kg	in/mm	in	mm	mm	mancal		in	mm
GEL	R 210 GEL	GELS 210 GEL	30	2" 50mm	3/4"	70	49		1/4"	1/4"	28
	R 310 GEL	GELS 310 GEL	40	3" 75mm	3/4"	100	64		1/4"	1/4"	28
BORRACHA	R 210 BP	GELS 210 BP	45	2" 50mm	3/4"	70	49		1/4"	1/4"	28
POLIURETANO	R 210 UP	GELS 210 UP	50	2" 50mm	3/4"	70	49		1/4"	1/4"	28
POLIPROPILENO	R 210 PP	GELS 210 PP	50	2" 50mm	3/4"	70	49		1/4"	1/4"	28
BORRACHA MACIÇA	R 210 BIN	GELS 210 BIN	50	2" 50mm	3/4"	70	49		1/4"	1/4"	24
NYLON	R 210 NP	GELS 210 NP	60	2" 50mm	3/4"	70	49		1/4"	1/4"	28
NYLON INTEGRAL	R 210 NN	GELS 210 NN	80	2" 50mm	3/4"	70	49		1/4"	1/4"	28
CELERON	R 210 C	GELS 210 C	80	2" 50mm	3/4"	70	49		1/4"	1/4"	28
FERRO	R 210 F	GELS 210 F	80	2" 50mm	3/4"	70	49		1/4"	1/4"	28



GEL GEL BP BORRACHA UP POLIURETANO PP POLIPROPILENO BIN BORRACHA MACIÇA NP NYLON NN NYLON INTEGRAL C CELERON F FERRO Z ZAMAK N NYLON PRETO

SÉRIE - 158 - CARGAS DE ATÉ 125 kg

REFERÊNCIA		kg	mm	mm	mm	mm	mancal	in	mm	
R 158 GEL	GELS 158 GEL ZC	30	41mm	17mm	58	45		1/4"	1/4"	20
R 158 GEL	GELS 158 GEL BC	30	41mm	17mm	58	45		1/4"	1/4"	20
R 158 N	GELS 158 N ZC	125	41mm	17mm	58	45		1/4"	1/4"	20
R 158 N	GELS 158 N BC	125	41mm	17mm	58	45		1/4"	1/4"	20



GELS 158 GEL ZC



GELS 158 N BC

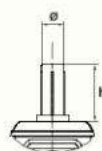
ACESSÓRIOS

OPÇÃO DE FREIO



FREIO "0"

FIXAÇÃO POR ESPIGA



Fixação ELS

Espiga lisa c/ Soquete

Espiga	Soquete
Ø x h	Ø Int x ØExt x h
3/8" x 28	10 x 13,8 x 31

SÉRIE 12 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 125 kg



BORRACHA - INJETADA
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal		in	mm
	LR	RR	LR	RR	LR	RR						□	5/16"		
R 312 BP	GLR 312 BP	FLR 312 BP	GRR 312 BP	FRR 312 BP	GHR 312 BP	FHR 312 BP	80	3" 75mm	1.1/4"	103	82	□	5/16"	5/16"	38
R 312 BPC	GLR 312 BPC	FLR 312 BPC	GRR 312 BPC	FRR 312 BPC	GHR 312 BPC	FHR 312 BPC						□	5/16"		
R 312 BPKC	GLR 312 BPKC	FLR 312 BPKC	GRR 312 BPKC	FRR 312 BPKC	GHR 312 BPKC	FHR 312 BPKC						K	K15		
R 412 BP	GLR 412 BP	FLR 412 BP	GRR 412 BP	FRR 412 BP	GHR 412 BP	FHR 412 BP	110	4" 100mm	1.1/4"	128	92	□	5/16"	5/16"	38
R 412 BPNC	GLR 412 BPNC	FLR 412 BPNC	GRR 412 BPNC	FRR 412 BPNC	GHR 412 BPNC	FHR 412 BPNC						N	5/16"		
R 412 BPKC	GLR 412 BPKC	FLR 412 BPKC	GRR 412 BPKC	FRR 412 BPKC	GHR 412 BPKC	FHR 412 BPKC						K	K15		
R 512 BP	GLR 512 BP	FLR 512 BP	GRR 512 BP	FRR 512 BP	GHR 512 BP	FHR 512 BP	125	5" 125mm	1.1/4"	156	105	□	5/16"	5/16"	38
R 512 BPNC	GLR 512 BPNC	FLR 512 BPNC	GRR 512 BPNC	FRR 512 BPNC	GHR 512 BPNC	FHR 512 BPNC						N	5/16"		
R 512 BPKC	GLR 512 BPKC	FLR 512 BPKC	GRR 512 BPKC	FRR 512 BPKC	GHR 512 BPKC	FHR 512 BPKC						K	K15		
R 612 BP	GLR 612 BP	FLR 612 BP	GRR 612 BP	FRR 612 BP	GHR 612 BP	FHR 612 BP	125	6" 150mm	1.1/4"	177	120	□	5/16"	5/16"	38
R 612 BPNC	GLR 612 BPNC	FLR 612 BPNC	GRR 612 BPNC	FRR 612 BPNC	GHR 612 BPNC	FHR 612 BPNC						N	5/16"		
R 612 BPKC	GLR 612 BPKC	FLR 612 BPKC	GRR 612 BPKC	FRR 612 BPKC	GHR 612 BPKC	FHR 612 BPKC						K	K15		



BORRACHA SOFT - INJETADA
Dureza 65 Shore A - Temperatura de -20° C a 50° C

REFERÊNCIA	LR		RR		kg	in/mm	in	mm	mm	mancal		in	mm
	LR	RR	LR	RR						□	5/16"		
R 312 SP					80	3" 75mm	1.1/4"	103	82	□	5/16"	5/16"	38
R 312 SPKC	GLR 312 SPKC	FLR 312 SPKC								K	K15		
R 512 SPKC			GRR 512 SPKC							K	K15		

ACESSÓRIOS

<p>PLACA SÉRIE 12</p>	<p>OPÇÃO DE FREIO</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr> <th>Série</th> <th>Ø x h</th> </tr> <tr> <td>12</td> <td>1/2" x 25 mm</td> </tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr> <th>Série</th> <th>Ø x h</th> </tr> <tr> <td>12</td> <td>1/2" x 60 mm</td> </tr> </table> </div> </div>	Série	Ø x h	12	1/2" x 25 mm	Série	Ø x h	12	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p>
Série	Ø x h										
12	1/2" x 25 mm										
Série	Ø x h										
12	1/2" x 60 mm										

<p>CABEÇOTES</p> <p>PLACA - LR</p>	<p>ROSCA - RR</p>	<p>EXPANSIVO - HR</p>	<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td>AL</td> <td>BO</td> <td></td> <td>NYLON</td> <td>NY</td> </tr> </tbody> </table>	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO		NYLON	NY
TUBO	Variação do Excêntrico		Ref. do Módulo		NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																															
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																															
1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL																																															
1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO																																															
1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																															
1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO		NYLON	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 150 kg



POLIURETANO - INJETADO
Dureza 90 Shore A - Temperatura - 20° C a 70° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal		in	mm
	LR	RR	HR	mm	mm										
R 312 UP	GLR 312 UP	FLR 312 UP	GRR 312 UP	FRR 312 UP	GHR 312 UP	FHR 312 UP	90	3" 75mm	1.1/4"	103	82	<input type="checkbox"/>	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						<input type="checkbox"/>	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	4" 100mm	1.1/4"	128	92	<input type="checkbox"/>	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	K15		
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	5" 125mm	1.1/4"	156	105	<input type="checkbox"/>	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	K15		
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	6" 150mm	1.1/4"	177	120	<input type="checkbox"/>	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	K15		
R 612 UPKC	GLR 612 UPKC	FLR 612 UPKC	GRR 612 UPKC	FRR 612 UPKC	GHR 612 UPKC	FHR 612 UPKC						K	K15		



NYLON - INJETADO
Dureza 75 Shore D - Temperatura de -20° C a 70° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal		in	mm
	LR	RR	HR	mm	mm										
R 312 NP	GLR 312 NP	FLR 312 NP	GRR 312 NP	FRR 312 NP	GHR 312 NP	FHR 312 NP	90	3" 75mm	1.1/4"	103	82	<input type="checkbox"/>	5/16"	5/16"	38
R 312 NPC	GLR 312 NPC	FLR 312 NPC	GRR 312 NPC	FRR 312 NPC	GHR 312 NPC	FHR 312 NPC						<input type="checkbox"/>	5/16"		
R 312 NPKC	GLR 312 NPKC	FLR 312 NPKC	GRR 312 NPKC	FRR 312 NPKC	GHR 312 NPKC	FHR 312 NPKC						K	K15		
R 412 NP	GLR 412 NP	FLR 412 NP	GRR 412 NP	FRR 412 NP	GHR 412 NP	FHR 412 NP	125	4" 100mm	1.1/4"	128	92	<input type="checkbox"/>	5/16"	5/16"	38
R 412 NPNC	GLR 412 NPNC	FLR 412 NPNC	GRR 412 NPNC	FRR 412 NPNC	GHR 412 NPNC	FHR 412 NPNC						N	K15		
R 412 NPKC	GLR 412 NPKC	FLR 412 NPKC	GRR 412 NPKC	FRR 412 NPKC	GHR 412 NPKC	FHR 412 NPKC						K	K15		
R 512 NP	GLR 512 NP	FLR 512 NP	GRR 512 NP	FRR 512 NP	GHR 512 NP	FHR 512 NP	150	5" 125mm	1.1/4"	156	105	<input type="checkbox"/>	5/16"	5/16"	38
R 512 NPNC	GLR 512 NPNC	FLR 512 NPNC	GRR 512 NPNC	FRR 512 NPNC	GHR 512 NPNC	FHR 512 NPNC						N	K15		
R 512 NPKC	GLR 512 NPKC	FLR 512 NPKC	GRR 512 NPKC	FRR 512 NPKC	GHR 512 NPKC	FHR 512 NPKC						K	K15		
R 612 NP	GLR 612 NP	FLR 612 NP	GRR 612 NP	FRR 612 NP	GHR 612 NP	FHR 612 NP	150	6" 150mm	1.1/4"	177	120	<input type="checkbox"/>	5/16"	5/16"	38
R 612 NPNC	GLR 612 NPNC	FLR 612 NPNC	GRR 612 NPNC	FRR 612 NPNC	GHR 612 NPNC	FHR 612 NPNC						N	K15		
R 612 NPKC	GLR 612 NPKC	FLR 612 NPKC	GRR 612 NPKC	FRR 612 NPKC	GHR 612 NPKC	FHR 612 NPKC						K	K15		

ACESSÓRIOS

<p>PLACA SÉRIE 12</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "ON" Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr> <th>Série</th> <th>Ø x h</th> </tr> <tr> <td>12</td> <td>1/2" x 25 mm</td> </tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr> <th>Série</th> <th>Ø x h</th> </tr> <tr> <td>12</td> <td>1/2" x 60 mm</td> </tr> </table> </div> </div>	Série	Ø x h	12	1/2" x 25 mm	Série	Ø x h	12	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <p>4 Buchas "Orbitais" de Nylon Grafitado Rolamento de esferas blindado</p>
Série	Ø x h										
12	1/2" x 25 mm										
Série	Ø x h										
12	1/2" x 60 mm										

<p>CABEÇOTES</p> <p>PLACA - LR</p> <p>GIRATÓRIO - G FIXO - F</p>	<p>ROSCA - RR</p> <p>GIRATÓRIO - G FIXO - F</p>	<p>EXPANSIVO - HR</p> <p>GIRATÓRIO - G FIXO - F</p>	<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>NY</td> </tr> </tbody> </table>	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO	NY	BORRACHA	NY
TUBO	Variação do Excêntrico		Ref. do Módulo		NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																															
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																															
1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL																																															
1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO																																															
1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																															
1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO	NY	BORRACHA	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 170 kg



NYLON COM FIBRA DE VIDRO
Dureza 75 Shore D - Temperatura de -40 a 180° C

REFERÊNCIA							kg	in	in	mm	mm	mancal	in	mm
	LR	RR	RR	HR										
R 312 NV	GLR 312 NV	FLR 312 NV	GRR 312 NV	FRR 312 NV	GHR 312 NV	FHR 312 NV	150	3"	1.1/4"	103	82	<input type="checkbox"/> 5/16"	5/16"	38
R 312 NNV	GLR 312 NNV	FLR 312 NNV	GRR 312 NNV	FRR 312 NNV	GHR 312 NNV	FHR 312 NNV								
R 412 NNV	GLR 412 NNV	FLR 412 NNV	GRR 412 NNV	FRR 412 NNV	GHR 412 NNV	FHR 412 NNV	170	4"	1.1/4"	128	92	<input type="checkbox"/> 5/16"	5/16"	38
R 512 NNV	GLR 512 NNV	FLR 512 NNV	GRR 512 NNV	FRR 512 NNV	GHR 512 NNV	FHR 512 NNV								
R 612 NNV	GLR 612 NNV	FLR 612 NNV	GRR 612 NNV	FRR 612 NNV	GHR 612 NNV	FHR 612 NNV	170	6"	1.1/4"	177	120	<input type="checkbox"/> 5/16"		



NYLON INJETADO - INTEGRAL
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal	in	mm
	LR	RR	RR	HR										
R 312 N	GLR 312 N	FLR 312 N	GRR 312 N	FRR 312 N	GHR 312 N	FHR 312 N	150	3" 75mm	1.1/4"	103	82	<input type="checkbox"/> 5/16"	5/16"	38
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	170	4" 100mm	1.1/4"	128	92	<input type="checkbox"/> 5/16"	5/16"	38
R 412 NN	GLR 412 NN	FLR 412 NN	GRR 412 NN	FRR 412 NN	GHR 412 NN	FHR 412 NN								
R 412 NNNC	GLR 412 NNNC	FLR 412 NNNC	GRR 412 NNNC	FRR 412 NNNC	GHR 412 NNNC	FHR 412 NNNC	170	5" 125mm	1.1/4"	156	105	<input type="checkbox"/> 5/16"	5/16"	38
R 412 NNKC	GLR 412 NNKC	FLR 412 NNKC	GRR 412 NNKC	FRR 412 NNKC	GHR 412 NNKC	FHR 412 NNKC								
R 512 NN	GLR 512 NN	FLR 512 NN	GRR 512 NN	FRR 512 NN	GHR 512 NN	FHR 512 NN	170	6" 150mm	1.1/4"	177	120	<input type="checkbox"/> 5/16"	5/16"	38
R 512 NNNC	GLR 512 NNNC	FLR 512 NNNC	GRR 512 NNNC	FRR 512 NNNC	GHR 512 NNNC	FHR 512 NNNC								
R 512 NNKC	GLR 512 NNKC	FLR 512 NNKC	GRR 512 NNKC	FRR 512 NNKC	GHR 512 NNKC	FHR 512 NNKC	170	6" 150mm	1.1/4"	177	120	<input type="checkbox"/> 5/16"	5/16"	38
R 612 NN	GLR 612 NN	FLR 612 NN	GRR 612 NN	FRR 612 NN	GHR 612 NN	FHR 612 NN								
R 612 NNNC	GLR 612 NNNC	FLR 612 NNNC	GRR 612 NNNC	FRR 612 NNNC	GHR 612 NNNC	FHR 612 NNNC	170	6" 150mm	1.1/4"	177	120	<input type="checkbox"/> 5/16"	5/16"	38
R 612 NNKC	GLR 612 NNKC	FLR 612 NNKC	GRR 612 NNKC	FRR 612 NNKC	GHR 612 NNKC	FHR 612 NNKC								

ACESSÓRIOS

<p>PLACA SÉRIE 12</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "ON" Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>12</td><td>1/2" x 25 mm</td></tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>12</td><td>1/2" x 60 mm</td></tr> </table> </div> </div>	Série	Ø x h	12	1/2" x 25 mm	Série	Ø x h	12	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <p>4 Buchas "Orbitais" de Nylon Grafitado Rolamento de esferas blindado</p>
Série	Ø x h										
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TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																																				
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																																			
1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL																																																			
1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO																																																			
1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	NYLON	NY																																																			
1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO		NYLON	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
Dureza 75 Shore D - Temperatura de -20 a 70° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal		in	mm
	LR		RR		HR										
R 312 P	GLR 312 P	FLR 312 P	GRR 312 P	FRR 312 P	GHR 312 P	FHR 312 P	90	3" 75mm	1.1/4"	103	82		5/16"	5/16"	38
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							K15		
R 412 PP	GLR 412 PP	FLR 412 PP	GRR 412 PP	FRR 412 PP	GHR 412 PP	FHR 412 PP	105	4" 100mm	1.1/4"	128	92		5/16"		
R 412 PPNC	GLR 412 PPNC	FLR 412 PPNC	GRR 412 PPNC	FRR 412 PPNC	GHR 412 PPNC	FHR 412 PPNC							N		
R 412 PPKC	GLR 412 PPKC	FLR 412 PPKC	GRR 412 PPKC	FRR 412 PPKC	GHR 412 PPKC	FHR 412 PPKC							K15		
R 512 PP	GLR 512 PP	FLR 512 PP	GRR 512 PP	FRR 512 PP	GHR 512 PP	FHR 512 PP	125	5" 125mm	1.1/4"	156	105		5/16"		
R 512 PPNC	GLR 512 PPNC	FLR 512 PPNC	GRR 512 PPNC	FRR 512 PPNC	GHR 512 PPNC	FHR 512 PPNC							N		
R 512 PPKC	GLR 512 PPKC	FLR 512 PPKC	GRR 512 PPKC	FRR 512 PPKC	GHR 512 PPKC	FHR 512 PPKC							K15		
R 612 PP	GLR 612 PP	FLR 612 PP	GRR 612 PP	FRR 612 PP	GHR 612 PP	FHR 612 PP	150	6" 150mm	1.1/4"	177	120		5/16"		
R 612 PPNC	GLR 612 PPNC	FLR 612 PPNC	GRR 612 PPNC	FRR 612 PPNC	GHR 612 PPNC	FHR 612 PPNC							N		
R 612 PPKC	GLR 612 PPKC	FLR 612 PPKC	GRR 612 PPKC	FRR 612 PPKC	GHR 612 PPKC	FHR 612 PPKC							K15		



BORRACHA MACIÇA - LINHA BIN
Dureza 80 Shore A - Temperatura de -20 a 70° C

REFERÊNCIA							kg	in	in	mm	mm	mancal		in	mm
	LR		RR		HR										
R 312 BIN	GLR 312 BIN	FLR 312 BIN	GRR 312 BIN	FRR 312 BIN	GHR 312 BIN	FHR 312 BIN	80	3"	1.1/4"	103	82		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	4"		128	92		5/16"		
R 512 BIN	GLR 512 BIN	FLR 512 BIN	GRR 512 BIN	FRR 512 BIN	GHR 512 BIN	FHR 512 BIN	150	5"		156	105		5/16"		
R 612 BIN	GLR 612 BIN	FLR 612 BIN	GRR 612 BIN	FRR 612 BIN	GHR 612 BIN	FHR 612 BIN	175	6"		177	120		5/16"		

ACESSÓRIOS

<p>PLACA SÉRIE 12</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "ON" Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr> <th>Série</th> <th>Ø x h</th> </tr> <tr> <td>12</td> <td>1/2" x 25 mm</td> </tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr> <th>Série</th> <th>Ø x h</th> </tr> <tr> <td>12</td> <td>1/2" x 60 mm</td> </tr> </table> </div> </div>	Série	Ø x h	12	1/2" x 25 mm	Série	Ø x h	12	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <p>4 Buchas "Orbitais" de Nylon Grafitado Rolamento de esferas blindado</p>
Série	Ø x h										
12	1/2" x 25 mm										
Série	Ø x h										
12	1/2" x 60 mm										

<p>CABEÇOTES</p> <div style="display: flex; justify-content: space-around;"> <div> <p>PLACA - LR</p> <p>GIRATÓRIO - G FIXO - F</p> </div> <div> <p>ROSCA - RR</p> <p>GIRATÓRIO - G FIXO - F</p> </div> <div> <p>EXPANSIVO - HR</p> <p>GIRATÓRIO - G FIXO - F</p> </div> </div>	<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td></td> <td>BO</td> <td></td> <td>NYLON</td> <td>NY</td> </tr> </tbody> </table>	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY
TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																														
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1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																													
1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	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 170 kg



FERRO FUNDIDO
Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal	in	mm	
	LR		RR		HR										
R 312 F	GLR 312 F	FLR 312 F	GRR 312 F	FRR 312 F	GHR 312 F	FHR 312 F	170	3" / 75mm	1.1/4"	103	82		5/16"	5/16"	38



BORRACHA - MOLDADA
Dureza Brinell: 150 HB - Temperatura de - 20 a 400° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal	in	mm	
	LR		RR		HR										
R 312 BFN	GLR 312 BFN	FLR 312 BFN	GRR 312 BFN	FRR 312 BFN	GHR 312 BFN	FHR 312 BFN	90	3" / 75mm	1.1/4"	103	82		5/16"	5/16"	38



POLIURETANO - MOLDADO
Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal	in	mm	
	LR		RR		HR										
R 312 UFN	GLR 312 UFN	FLR 312 UFN	GRR 312 UFN	FRR 312 UFN	GHR 312 UFN	FHR 312 UFN	170	3" / 75mm	1.1/4"	103	82	N		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	



CELERON
Dureza Brinell: 25 HB - Temperatura de - 30 a 120° C

REFERÊNCIA							kg	in/mm	in	mm	mm	mancal	in	mm	
	LR		RR		HR										
R 312 C	GLR 312 C	FLR 312 C	GRR 312 C	FRR 312 C	GHR 312 C	FHR 312 C	150	3" / 75mm	1.1/4"	103	82		5/16"	5/16"	38

ACESSÓRIOS

<p>PLACA SÉRIE 12</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "ON" Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>12</td><td>1/2" x 25 mm</td></tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>12</td><td>1/2" x 60 mm</td></tr> </table> </div> </div>	Série	Ø x h	12	1/2" x 25 mm	Série	Ø x h	12	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <p>Bucha de Nylon Grafitado Rolamento de esferas blindado</p>
Série	Ø x h										
12	1/2" x 25 mm										
Série	Ø x h										
12	1/2" x 60 mm										

<p>CABEÇOTES</p> <p>PLACA - LR</p> <p>GIRATÓRIO - G FIXO - F</p>	<p>ROSCA - RR</p> <p>GIRATÓRIO - G FIXO - F</p>	<p>EXPANSIVO - HR</p> <p>GIRATÓRIO - G FIXO - F</p>	<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td></td> <td>BO</td> <td></td> <td>NYLON</td> <td>NY</td> </tr> </tbody> </table> <p>Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 512 BP GAMA NY</p>	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY
TUBO	Variação do Excêntrico		Ref. do Módulo		NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																															
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																															
1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL																																															
1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO																																															
1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																															
1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY																																															

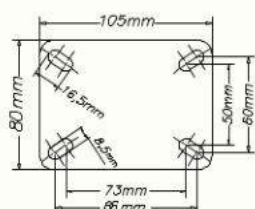
SÉRIE GLRA 312 - CARGAS DE ATÉ 170 kg



REVESTIMENTOS	REFERÊNCIA	LRA	kg	in/mm	in	mm	mm	mancal		in	mm
BORRACHA	R 312 BP	GLRA 312 BP	80	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
	R 312 BPC	GLRA 312 BPC							5/16"		
	R 312 BPKC	GLRA 312 BPKC						K	K15		
POLIURETANO	R 312 UP	GLRA 312 UP	90	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
	R 312 UPC	GLRA 312 UPC							5/16"		
	R 312 UPKC	GLRA 312 UPKC						K	K15		
POLIPROPILENO	R 312 P	GLRA 312 P	90	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
	R 312 PP	GLRA 312 PP							5/16"		
	R 312 PPC	GLRA 312 PPC							5/16"		
	R 312 PPKC	GLRA 312 PPKC						K	K15		
BORRACHA MACIÇA	R 312 BIN	GLRA 312 BIN	80	3" 75mm	1.1/4"	103	69		5/16"	5/16"	
NYLON	R 312 NP	GLRA 312 NP	90	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
	R 312 NPC	GLRA 312 NPC							5/16"		
	R 312 NPKC	GLRA 312 NPKC						K	K15		
NYLON INTEGRAL	R 312 N	GLRA 312 N	150	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
	R 312 NNC	GLRA 312 NNC							5/16"		
	R 312 NNKC	GLRA 312 NNKC						K	K15		
CELERON	R 312 C	GLRA 312 C	150	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
BORRACHA MOLDADA	R 312 BFN	GLRA 312 BFN	90	3" 75mm	1.1/4"	103	69		5/16"	5/16"	
POLIURETANO MOLDADO	R 312 UFN	GLRA 312 UFN	170	3" 75mm	1.1/4"	103	69		5/16"	5/16"	38
	R 312 UFK	GLRA 312 UFK						K	K15		
FERRO	R 312 F	GLRA 312 F	170	3" 75mm	1.1/4"	103	69		5/16"	5/16"	

ACESSÓRIOS

PLACA SÉRIE 12



OPÇÃO DE FREIO



RAIO DE SAÍDA



TIPOS DE MANCAIS



Diferente da série GLR, a GLRA possui um raio de saída menor

SÉRIE 12 - LINHA INOX - CARGAS DE ATÉ 120 kg

INOX

AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA									kg	in/mm	in	mm	mm	mancal		in	mm		
	LRX	RRX	HRX	HRX															
R 312 BP	GLRX 312 BP	FLRX 312 BP	GRRX 312 BP	FRRX 312 BP	GHRX 312 BP	FHRX 312 BP	40	3" 75mm	1.1/4"	103	69	5/16"	K		K15	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	4" 100mm	1.1/4"	128	92	5/16"	N		5/16"	38			
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	5" 125mm	1.1/4"	156	105	5/16"	N		5/16"	38			
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	6" 150mm	1.1/4"	177	120	5/16"	N		5/16"	38			
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
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA									kg	in/mm	in	mm	mm	mancal		in	mm		
	LRX	RRX	HRX	HRX															
R 312 N	GLRX 312 N	FLRX 312 N	GRRX 312 N	FRRX 312 N	GHRX 312 N	FHRX 312 N	105	3" 75mm	1.1/4"	103	69	5/16"	K		K15	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 NN	GLRX 412 NN	FLRX 412 NN	GRRX 412 NN	FRRX 412 NN	GHRX 412 NN	FHRX 412 NN	120	4" 100mm	1.1/4"	128	92	5/16"	N		5/16"	38			
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 NN	GLRX 512 NN	FLRX 512 NN	GRRX 512 NN	FRRX 512 NN	GHRX 512 NN	FHRX 512 NN	120	5" 125mm	1.1/4"	156	105	5/16"	N		5/16"	38			
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 NN	GLRX 612 NN	FLRX 612 NN	GRRX 612 NN	FRRX 612 NN	GHRX 612 NN	FHRX 612 NN	120	6" 150mm	1.1/4"	177	120	5/16"	N		5/16"	38			
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

<p>PLACA SÉRIE 12</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>12</td><td>1/2" x 25 mm</td></tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>12</td><td>1/2" x 60 mm</td></tr> </table> </div> </div>	Série	Ø x h	12	1/2" x 25 mm	Série	Ø x h	12	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <p>4 Buchas "Orbitais" de Nylon Grafitado</p> <p>Rolamento de esferas blindado</p>
Série	Ø x h										
12	1/2" x 25 mm										
Série	Ø x h										
12	1/2" x 60 mm										

<p>CABEÇOTES</p> <div style="display: flex; justify-content: space-around;"> <div> <p>PLACA - LR</p> </div> <div> <p>ROSCA - RR</p> </div> <div> <p>EXPANSIVO - HR</p> </div> </div>			<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td></td> <td>BO</td> <td></td> <td>NYLON</td> <td>NY</td> </tr> </tbody> </table>					TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY
TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																																				
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																																			
1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL																																																			
1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO																																																			
1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																																			
1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	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 165 kg



BORRACHA - INJETADA
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 BZN	GLR 414 BZN	FLR 414 BZN	GRR 414 BZN	FRR 414 BZN	GHR 414 BZN	FHR 414 BZN	110	4" / 100mm	1.1/2"	128	92	N		7/16"	49	
R 414 BZL	GLR 414 BZL	FLR 414 BZL	GRR 414 BZL	FRR 414 BZL	GHR 414 BZL	FHR 414 BZL										
R 414 BPNC	GLR 414 BPNC	FLR 414 BPNC	GRR 414 BPNC	FRR 414 BPNC	GHR 414 BPNC	FHR 414 BPNC										
R 414 BPKC	GLR 414 BPKC	FLR 414 BPKC	GRR 414 BPKC	FRR 414 BPKC	GHR 414 BPKC	FHR 414 BPKC										
R 514 BZN	GLR 514 BZN	FLR 514 BZN	GRR 514 BZN	FRR 514 BZN	GHR 514 BZN	FHR 514 BZN										
R 514 BZL	GLR 514 BZL	FLR 514 BZL	GRR 514 BZL	FRR 514 BZL	GHR 514 BZL	FHR 514 BZL										
R 514 BPNC	GLR 514 BPNC	FLR 514 BPNC	GRR 514 BPNC	FRR 514 BPNC	GHR 514 BPNC	FHR 514 BPNC	125	5" / 125mm	1.1/2"	155	114	N		7/16"	49	
R 514 BZL	GLR 514 BZL	FLR 514 BZL	GRR 514 BZL	FRR 514 BZL	GHR 514 BZL	FHR 514 BZL										
R 514 BPNC	GLR 514 BPNC	FLR 514 BPNC	GRR 514 BPNC	FRR 514 BPNC	GHR 514 BPNC	FHR 514 BPNC										
R 514 BPKC	GLR 514 BPKC	FLR 514 BPKC	GRR 514 BPKC	FRR 514 BPKC	GHR 514 BPKC	FHR 514 BPKC										
R 614 BZN	GLR 614 BZN	FLR 614 BZN	GRR 614 BZN	FRR 614 BZN	GHR 614 BZN	FHR 614 BZN	165	6" / 150mm	1.1/2"	180	118	N		7/16"	49	
R 614 BZL	GLR 614 BZL	FLR 614 BZL	GRR 614 BZL	FRR 614 BZL	GHR 614 BZL	FHR 614 BZL										
R 614 BPNC	GLR 614 BPNC	FLR 614 BPNC	GRR 614 BPNC	FRR 614 BPNC	GHR 614 BPNC	FHR 614 BPNC										
R 614 BPKC	GLR 614 BPKC	FLR 614 BPKC	GRR 614 BPKC	FRR 614 BPKC	GHR 614 BPKC	FHR 614 BPKC										



BORRACHA - INJETADA
Dureza 90 Shore A - Temperatura de -10° C a 70° C

		kg	in/mm	in	mm	mm	mancal			in	mm
LR											
GLRB 414 BZLA	FLRB 414 BZLA	110	4" / 100mm	1.1/2"	128	92	K		K15	7/16"	49
GLRB 514 BZLA	FLRB 514 BZLA	125	5" / 125mm	1.1/2"	155	114	N		7/16"		
GLRB 614 BZLA	FLRB 614 BZLA	165	6" / 150mm	1.1/2"	180	118	K		K15		



BORRACHA SOFT - INJETADA
Dureza 65 Shore A - Temperatura de -20° C a 50° C

REFERÊNCIA	LR	RR	kg	in/mm	in	mm	mm	mancal			in	mm
R 414 SPKC		GRR 414 SPKC	85	4" / 100mm	1.1/2"	128	92	K		K15	7/16"	49
R 514 SPNC		GRR 514 SPKC	115	5" / 125mm	1.1/2"	155	114	N		7/16"		
R 614 SPKC	GLR 614 SPKC		125	6" / 150mm	1.1/2"	180	118	K		K15		

ACESSÓRIOS

<p>PLACA SÉRIE 14</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><th>Série</th><th>Ø</th><th>x</th><th>h</th></tr> <tr><td>14</td><td>1/2"</td><td>x</td><td>25 mm</td></tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr><th>Série</th><th>Ø</th><th>x</th><th>h</th></tr> <tr><td>14</td><td>1/2"</td><td>x</td><td>60 mm</td></tr> </table> </div> </div>	Série	Ø	x	h	14	1/2"	x	25 mm	Série	Ø	x	h	14	1/2"	x	60 mm	<p>TIPOS DE MANCAIS</p> <ul style="list-style-type: none"> Bucha de Nylon Grafitado 4 Buchas "Orbitais" de Nylon Grafitado Rolamentos de Roletes Rolamento de esferas blindado
Série	Ø	x	h																
14	1/2"	x	25 mm																
Série	Ø	x	h																
14	1/2"	x	60 mm																

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

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 414 BZL GAMA NY

SÉRIE 14 - LINHAS - LR/RR/HR - CARGAS DE ATÉ 170 kg



POLIURETANO - INJETADO
Dureza 90 Shore A - Temperatura -20° C a 70° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal	in	mm
R 414 UZN	GLR 414 UZN	FLR 414 UZN	GRR 414 UZN	FRR 414 UZN	GHR 414 UZN	FHR 414 UZN	125	4" 100mm	1.1/2"	128	92	N	7/16"	49
R 414 UZL	GLR 414 UZL	FLR 414 UZL	GRR 414 UZL	FRR 414 UZL	GHR 414 UZL	FHR 414 UZL								
R 414 UPNC	GLR 414 UPNC	FLR 414 UPNC	GRR 414 UPNC	FRR 414 UPNC	GHR 414 UPNC	FHR 414 UPNC								
R 414 UPKC	GLR 414 UPKC	FLR 414 UPKC	GRR 414 UPKC	FRR 414 UPKC	GHR 414 UPKC	FHR 414 UPKC								
R 514 UZN	GLR 514 UZN	FLR 514 UZN	GRR 514 UZN	FRR 514 UZN	GHR 514 UZN	FHR 514 UZN	160	5" 125mm	1.1/2"	155	114	N	7/16"	49
R 514 UZL	GLR 514 UZL	FLR 514 UZL	GRR 514 UZL	FRR 514 UZL	GHR 514 UZL	FHR 514 UZL								
R 514 UPNC	GLR 514 UPNC	FLR 514 UPNC	GRR 514 UPNC	FRR 514 UPNC	GHR 514 UPNC	FHR 514 UPNC								
R 514 UPKC	GLR 514 UPKC	FLR 514 UPKC	GRR 514 UPKC	FRR 514 UPKC	GHR 514 UPKC	FHR 514 UPKC								
R 614 UZN	GLR 614 UZN	FLR 614 UZN	GRR 614 UZN	FRR 614 UZN	GHR 614 UZN	FHR 614 UZN	170	6" 150mm	1.1/2"	180	118	N	7/16"	49
R 614 UZL	GLR 614 UZL	FLR 614 UZL	GRR 614 UZL	FRR 614 UZL	GHR 614 UZL	FHR 614 UZL								
R 614 UPNC	GLR 614 UPNC	FLR 614 UPNC	GRR 614 UPNC	FRR 614 UPNC	GHR 614 UPNC	FHR 614 UPNC								
R 614 UPKC	GLR 614 UPKC	FLR 614 UPKC	GRR 614 UPKC	FRR 614 UPKC	GHR 614 UPKC	FHR 614 UPKC								

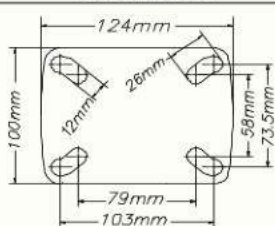


POLIPROPILENO - INJETADO
Dureza 75 Shore D - Temperatura de -20 a 70° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal	in	mm
R 414 PZN	GLR 414 PZN	FLR 414 PZN	GRR 414 PZN	FRR 414 PZN	GHR 414 PZN	FHR 414 PZN	115	4" 100mm	1.1/2"	128	92	N	7/16"	49
R 414 PZL	GLR 414 PZL	FLR 414 PZL	GRR 414 PZL	FRR 414 PZL	GHR 414 PZL	FHR 414 PZL								
R 414 PPNC	GLR 414 PPNC	FLR 414 PPNC	GRR 414 PPNC	FRR 414 PPNC	GHR 414 PPNC	FHR 414 PPNC								
R 414 PPKC	GLR 414 PPKC	FLR 414 PPKC	GRR 414 PPKC	FRR 414 PPKC	GHR 414 PPKC	FHR 414 PPKC								
R 514 PZN	GLR 514 PZN	FLR 514 PZN	GRR 514 PZN	FRR 514 PZN	GHR 514 PZN	FHR 514 PZN	150	5" 125mm	1.1/2"	155	114	N	7/16"	49
R 514 PZL	GLR 514 PZL	FLR 514 PZL	GRR 514 PZL	FRR 514 PZL	GHR 514 PZL	FHR 514 PZL								
R 514 PPNC	GLR 514 PPNC	FLR 514 PPNC	GRR 514 PPNC	FRR 514 PPNC	GHR 514 PPNC	FHR 514 PPNC								
R 514 PPKC	GLR 514 PPKC	FLR 514 PPKC	GRR 514 PPKC	FRR 514 PPKC	GHR 514 PPKC	FHR 514 PPKC								
R 614 PZN	GLR 614 PZN	FLR 614 PZN	GRR 614 PZN	FRR 614 PZN	GHR 614 PZN	FHR 614 PZN	160	6" 150mm	1.1/2"	180	118	N	7/16"	49
R 614 PZL	GLR 614 PZL	FLR 614 PZL	GRR 614 PZL	FRR 614 PZL	GHR 614 PZL	FHR 614 PZL								
R 614 PPNC	GLR 614 PPNC	FLR 614 PPNC	GRR 614 PPNC	FRR 614 PPNC	GHR 614 PPNC	FHR 614 PPNC								
R 614 PPKC	GLR 614 PPKC	FLR 614 PPKC	GRR 614 PPKC	FRR 614 PPKC	GHR 614 PPKC	FHR 614 PPKC								

ACESSÓRIOS

PLACA SÉRIE 14



OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA



TIPOS DE MANCAIS



CABEÇOTES



TABELA DE EXPANSIVOS

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

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 414 BZL GAMA NY

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



NYLON - INJETADO
Dureza 75 Shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal	in	mm
R 414 NZN	GLR 414 NZN	FLR 414 NZN	GRR 414 NZN	FRR 414 NZN	GHR 414 NZN	FHR 414 NZN	125	4" 100mm	1.1/2"	128	92	N	7/16"	49
R 414 NZL	GLR 414 NZL	FLR 414 NZL	GRR 414 NZL	FRR 414 NZL	GHR 414 NZL	FHR 414 NZL								
R 414 NPNC	GLR 414 NPNC	FLR 414 NPNC	GRR 414 NPNC	FRR 414 NPNC	GHR 414 NPNC	FHR 414 NPNC								
R 414 NPKC	GLR 414 NPKC	FLR 414 NPKC	GRR 414 NPKC	FRR 414 NPKC	GHR 414 NPKC	FHR 414 NPKC								
R 514 NZN	GLR 514 NZN	FLR 514 NZN	GRR 514 NZN	FRR 514 NZN	GHR 514 NZN	FHR 514 NZN	160	5" 125mm	1.1/2"	155	114	N	7/16"	49
R 514 NZL	GLR 514 NZL	FLR 514 NZL	GRR 514 NZL	FRR 514 NZL	GHR 514 NZL	FHR 514 NZL								
R 514 NPNC	GLR 514 NPNC	FLR 514 NPNC	GRR 514 NPNC	FRR 514 NPNC	GHR 514 NPNC	FHR 514 NPNC								
R 514 NPKC	GLR 514 NPKC	FLR 514 NPKC	GRR 514 NPKC	FRR 514 NPKC	GHR 514 NPKC	FHR 514 NPKC								
R 614 NZN	GLR 614 NZN	FLR 614 NZN	GRR 614 NZN	FRR 614 NZN	GHR 614 NZN	FHR 614 NZN	170	6" 150mm	1.1/2"	180	118	N	7/16"	49
R 614 NZL	GLR 614 NZL	FLR 614 NZL	GRR 614 NZL	FRR 614 NZL	GHR 614 NZL	FHR 614 NZL								
R 614 NPNC	GLR 614 NPNC	FLR 614 NPNC	GRR 614 NPNC	FRR 614 NPNC	GHR 614 NPNC	FHR 614 NPNC								
R 614 NPKC	GLR 614 NPKC	FLR 614 NPKC	GRR 614 NPKC	FRR 614 NPKC	GHR 614 NPKC	FHR 614 NPKC								



NYLON INJETADO - INTEGRAL
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal	in	mm
R 414 NNZN	GLR 414 NNZN	FLR 414 NNZN	GRR 414 NNZN	FRR 414 NNZN	GHR 414 NNZN	FHR 414 NNZN	200	4" 100mm	1.1/2"	128	92	N	7/16"	49
R 414 NNZL	GLR 414 NNZL	FLR 414 NNZL	GRR 414 NNZL	FRR 414 NNZL	GHR 414 NNZL	FHR 414 NNZL								
R 414 NNNC	GLR 414 NNNC	FLR 414 NNNC	GRR 414 NNNC	FRR 414 NNNC	GHR 414 NNNC	FHR 414 NNNC								
R 414 NNKC	GLR 414 NNKC	FLR 414 NNKC	GRR 414 NNKC	FRR 414 NNKC	GHR 414 NNKC	FHR 414 NNKC								
R 514 NNZN	GLR 514 NNZN	FLR 514 NNZN	GRR 514 NNZN	FRR 514 NNZN	GHR 514 NNZN	FHR 514 NNZN	250	5" 125mm	1.1/2"	155	114	N	7/16"	49
R 514 NNZL	GLR 514 NNZL	FLR 514 NNZL	GRR 514 NNZL	FRR 514 NNZL	GHR 514 NNZL	FHR 514 NNZL								
R 514 NNNC	GLR 514 NNNC	FLR 514 NNNC	GRR 514 NNNC	FRR 514 NNNC	GHR 514 NNNC	FHR 514 NNNC								
R 514 NNKC	GLR 514 NNKC	FLR 514 NNKC	GRR 514 NNKC	FRR 514 NNKC	GHR 514 NNKC	FHR 514 NNKC								
R 614 NNZN	GLR 614 NNZN	FLR 614 NNZN	GRR 614 NNZN	FRR 614 NNZN	GHR 614 NNZN	FHR 614 NNZN	300	6" 150mm	1.1/2"	180	118	N	7/16"	49
R 614 NNZL	GLR 614 NNZL	FLR 614 NNZL	GRR 614 NNZL	FRR 614 NNZL	GHR 614 NNZL	FHR 614 NNZL								
R 614 NNNC	GLR 614 NNNC	FLR 614 NNNC	GRR 614 NNNC	FRR 614 NNNC	GHR 614 NNNC	FHR 614 NNNC								
R 614 NNKC	GLR 614 NNKC	FLR 614 NNKC	GRR 614 NNKC	FRR 614 NNKC	GHR 614 NNKC	FHR 614 NNKC								

ACESSÓRIOS

<p>PLACA SÉRIE 14</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>14</td><td>1/2" x 25 mm</td></tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr><th>Série</th><th>Ø x h</th></tr> <tr><td>14</td><td>1/2" x 60 mm</td></tr> </table> </div> </div>	Série	Ø x h	14	1/2" x 25 mm	Série	Ø x h	14	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <ul style="list-style-type: none"> Bucha de Nylon Grafitado 4 Buchas "Orbitais" de Nylon Grafitado Rolamentos de Roletes Rolamento de esferas blindado
Série	Ø x h										
14	1/2" x 25 mm										
Série	Ø x h										
14	1/2" x 60 mm										

CABEÇOTES			TABELA DE EXPANSIVOS								
PLACA - LR	ROSCA - RR	EXPANSIVO - HR	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO	
				Mínimo	Máximo		AL	BO	NY		
GIRATÓRIO - G FIXO - F	GIRATÓRIO - G FIXO - F	GIRATÓRIO - G FIXO - F	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL
			1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO
			1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	NYLON	NY
			1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO			

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 414 BZL GAMA NY

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



NYLON INJETADO - INTEGRAL - COM 2 ROLAMENTOS E SEM CALOTA
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA			kg	in/mm	in/mm	mm	mm	mancal			in	mm
	LR											
R 314 NNK	GLR 314 NK	FLR 314 NK	300	3" / 75mm	35mm	100	-	K		-	7/16"	50
R 414 NNK	GLR 414 NNK	FLR 414 NNK	200	4" / 100mm	1.1/2"	125	92	K		K15		
R 514 NNK	GLR 514 NNK	FLR 514 NNK	250	5" / 125mm		155	114	K		K15		
R 614 NNK	GLR 614 NNK	FLR 614 NNK	300	6" / 150mm		180	118	K		K15		



BORRACHA MACIÇA - LINHA BIN
Dureza 80 Shore A - Temperatura de -20 a 70° C

REFERÊNCIA			kg	in/mm	in	mm	mm	mancal			in	mm
	LR							RR		HR		
R 414 BIN	GLR 414 BIN	FLR 414 BIN	130	4"	1.1/2"	128	92	N		-	7/16"	45
R 514 BIN	GLR 514 BIN	FLR 514 BIN	155	5"		155	114	N		-	7/16"	
R 614 BIN	GLR 614 BIN	FLR 614 BIN	180	6"		180	118	N		-	7/16"	



POLIURETANO - MOLDADO
Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA			kg	in/mm	in	mm	mm	mancal			in	mm
	LR							RR		HR		
R 414 UFN	GLR 414 UFN	FLR 414 UFN	250	4" / 100mm	1.1/2"	128	92	N		-	7/16"	49
R 414 UFK	GLR 414 UFK	FLR 414 UFK						K		K15		
R 514 UFN	GLR 514 UFN	FLR 514 UFN	300	5" / 125mm	1.1/2"	155	114	N		-	7/16"	
R 514 UFK	GLR 514 UFK	FLR 514 UFK						K		K15		
R 614 UFN	GLR 614 UFN	FLR 614 UFN	350	6" / 150mm	1.1/2"	180	118	N		-	7/16"	
R 614 UFK	GLR 614 UFK	FLR 614 UFK						K		K15		

ACESSÓRIOS

<p>PLACA SÉRIE 14</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><td>Série</td><td>14</td></tr> <tr><td>Ø x h</td><td>1/2" x 25 mm</td></tr> </table> </div> <div style="text-align: center;"> <p>Fixação por Expansor</p> <table border="1"> <tr><td>Série</td><td>14</td></tr> <tr><td>Ø x h</td><td>1/2" x 60 mm</td></tr> </table> </div> </div>	Série	14	Ø x h	1/2" x 25 mm	Série	14	Ø x h	1/2" x 60 mm	<p>TIPOS DE MANCAIS</p> <ul style="list-style-type: none"> Bucha de Nylon Grafitado Rolamento de esferas blindado
Série	14										
Ø x h	1/2" x 25 mm										
Série	14										
Ø x h	1/2" x 60 mm										

<p>CABEÇOTES</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PLACA - LR</p> <p>GIRATÓRIO - G FIXO - F</p> </div> <div style="text-align: center;"> <p>ROSCA - RR</p> <p>GIRATÓRIO - G FIXO - F</p> </div> <div style="text-align: center;"> <p>EXPANSIVO - HR</p> <p>GIRATÓRIO - G FIXO - F</p> </div> </div>	<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>NYLON</td> <td>NY</td> </tr> </tbody> </table>	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO	NY	NYLON	NY
TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																														
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																													
1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL																																													
1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO																																													
1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																													
1.5/8	36,5 mm	38,5 mm	DZETA	AL	BO	NY	NYLON	NY																																													

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 414 BZL GAMA NY

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



FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de - 40 a 110° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal		in	mm
	GLR	FLR	GRR	FRR	GHR	FHR						Ø	h		
R 414 FN	GLR 414 FN	FLR 414 FN	GRR 414 FN	FRR 414 FN	GHR 414 FN	FHR 414 FN	250	4" 100mm	1.1/2"	128	92	N	7/16"	7/16"	49
R 514 FN	GLR 514 FN	FLR 514 FN	GRR 514 FN	FRR 514 FN	GHR 514 FN	FHR 514 FN	300	5" 125mm				K	K15		
R 614 FN	GLR 614 FN	FLR 614 FN	GRR 614 FN	FRR 614 FN	GHR 614 FN	FHR 614 FN	350	6" 150mm				N	7/16"		

Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal		in	mm
	GLR	FLR	GRR	FRR	GHR	FHR						Ø	h		
R 414 F	GLR 414 F	FLR 414 F	GRR 414 F	FRR 414 F	GHR 414 F	FHR 414 F	250	4" 100mm	1.1/2"	128	92	K	K15	7/16"	49
R 414 FK	GLR 414 FK	FLR 414 FK	GRR 414 FK	FRR 414 FK	GHR 414 FK	FHR 414 FK	300	5" 125mm				K	K15		
R 514 FK	GLR 514 FK	FLR 514 FK	GRR 514 FK	FRR 514 FK	GHR 514 FK	FHR 514 FK	350	6" 150mm				K	K15		



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de - 20° C a 70° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal		in	mm
	GLR	FLR	GRR	FRR	GHR	FHR						Ø	h		
R 414 BFN	GLR 414 BFN	FLR 414 BFN	GRR 414 BFN	FRR 414 BFN	GHR 414 BFN	FHR 414 BFN	150	4" 100mm	1.1/2"	128	92	N	7/16"	7/16"	49
R 414 BFK	GLR 414 BFK	FLR 414 BFK	GRR 414 BFK	FRR 414 BFK	GHR 414 BFK	FHR 414 BFK	175	5" 125mm				K	K15		
R 514 BFN	GLR 514 BFN	FLR 514 BFN	GRR 514 BFN	FRR 514 BFN	GHR 514 BFN	FHR 514 BFN	200	6" 150mm				N	7/16"		



CELERON

Dureza Brinell: 25 HB - Temperatura de - 30 a 120° C

REFERÊNCIA	LR		RR		HR		kg	in/mm	in	mm	mm	mancal		in	mm
	GLR	FLR	GRR	FRR	GHR	FHR						Ø	h		
R 414 C	GLR 414 C	FLR 414 C	GRR 414 C	FRR 414 C	GHR 414 C	FHR 414 C	200	4" 100mm	1.1/2"	128	92	Ø	7/16"	7/16"	49
R 514 C	GLR 514 C	FLR 514 C	GRR 514 C	FRR 514 C	GHR 514 C	FHR 514 C	250	5" 125mm				Ø	7/16"		
R 614 C	GLR 614 C	FLR 614 C	GRR 614 C	FRR 614 C	GHR 614 C	FHR 614 C	350	6" 150mm				Ø	7/16"		

ACESSÓRIOS

<p>PLACA SÉRIE 14</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr><th>Série</th><th>Ø</th><th>x</th><th>h</th></tr> <tr><td>14</td><td>1/2"</td><td>x</td><td>25 mm</td></tr> </table> </div> <div style="text-align: center;"> <p>Fixação por Expansor</p> <table border="1"> <tr><th>Série</th><th>Ø</th><th>x</th><th>h</th></tr> <tr><td>14</td><td>1/2"</td><td>x</td><td>60 mm</td></tr> </table> </div> </div>	Série	Ø	x	h	14	1/2"	x	25 mm	Série	Ø	x	h	14	1/2"	x	60 mm	<p>TIPOS DE MANCAIS</p> <ul style="list-style-type: none"> Bucha de Nylon Grafitado Rolamento de esferas blindado
Série	Ø	x	h																
14	1/2"	x	25 mm																
Série	Ø	x	h																
14	1/2"	x	60 mm																

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TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																														
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Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHR 414 BZL GAMA NY

SÉRIE 14 - LINHA INOX - CARGAS DE ATÉ 210 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	LRX		RRX		HRX		kg	in/mm	in	mm	mm	mancal		in	mm	
R 414 BZN	GLRX 414 BZN	FLRX 414 BZN	GRRX 414 BZN	FRRX 414 BZN	GHRX 414 BZN	FHRX 414 BZN	60	4" 100mm	1.1/2"	128	92	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	5" 125mm	1.1/2"	160	114	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	6" 150mm	1.1/2"	180	118	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 - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	LRX		RRX		HRX		kg	in/mm	in	mm	mm	mancal		in	mm	
R 414 NNZN	GLRX 414 NNZN	FLRX 414 NNZN	GRRX 414 NNZN	FRRX 414 NNZN	GHRX 414 NNZN	FHRX 414 NNZN	140	4" 100mm	1.1/2"	128	92	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	5" 125mm	1.1/2"	160	114	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	6" 150mm	1.1/2"	180	118	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

<p>PLACA SÉRIE 14</p>	<p>OPÇÃO DE FREIO</p> <p>Freio "OA"</p>	<p>FIXAÇÃO POR ESPIGA</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Fixação por Espiga Roscada</p> <table border="1"> <tr> <th>Série</th> <th>Ø</th> <th>x</th> <th>h</th> </tr> <tr> <td>14</td> <td>1/2"</td> <td>x</td> <td>25 mm</td> </tr> </table> </div> <div> <p>Fixação por Expansor</p> <table border="1"> <tr> <th>Série</th> <th>Ø</th> <th>x</th> <th>h</th> </tr> <tr> <td>14</td> <td>1/2"</td> <td>x</td> <td>60 mm</td> </tr> </table> </div> </div>	Série	Ø	x	h	14	1/2"	x	25 mm	Série	Ø	x	h	14	1/2"	x	60 mm	<p>TIPOS DE MANCAIS</p> <ul style="list-style-type: none"> Bucha de Nylon Grafitado 4 Buchas "Orbitais" de Nylon Grafitado Rolamentos de Roletes Rolamento de esferas blindado
Série	Ø	x	h																
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CABEÇOTES			TABELA DE EXPANSIVOS											
PLACA - LR		ROSCA - RR		EXPANSIVO - HR		TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO	
							Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL
GIRATÓRIO - G	FIXO - F	GIRATÓRIO - G	FIXO - F	GIRATÓRIO - G	FIXO - F	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL
						1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO
						1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	NYLON	NY
						1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHRX 414 BZL GAMA NY

SÉRIE 14 - LINHA INOX - CARGAS DE ATÉ 210 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

Rodas indicadas para equipamentos estacionários com pouca movimentação.

REFERÊNCIA									kg	in/mm	in	mm	mm	mancal	in	mm
	LRX	RRX	HRX	HRX												
R 414 BZN	GLRX 414 BZN	FLRX 414 BZN	GRRX 414 BZN	FRRX 414 BZN	GHRX 414 BZN	FHRX 414 BZN	60	4" 100mm	1.1/2"	128	92	N	7/16"	7/16"	49	
R 414 BZLX	GLRX 414 BZLX	FLRX 414 BZLX	GRRX 414 BZLX	FRRX 414 BZLX	GHRX 414 BZLX	FHRX 414 BZLX										
R 414 BPNC	GLRX 414 BPNC	FLRX 414 BPNC	GRRX 414 BPNC	FRRX 414 BPNC	GHRX 414 BPNC	FHRX 414 BPNC										
R 414 BPKC	GLRX 414 BPKC	FLRX 414 BPKC	GRRX 414 BPKC	FRRX 414 BPKC	GHRX 414 BPKC	FHRX 414 BPKC										
R 514 BZN	GLRX 514 BZN	FLRX 514 BZN	GRRX 514 BZN	FRRX 514 BZN	GHRX 514 BZN	FHRX 514 BZN	80	5" 125mm	1.1/2"	160	114	N	7/16"	7/16"	49	
R 514 BZLX	GLRX 514 BZLX	FLRX 514 BZLX	GRRX 514 BZLX	FRRX 514 BZLX	GHRX 514 BZLX	FHRX 514 BZLX										
R 514 BPNC	GLRX 514 BPNC	FLRX 514 BPNC	GRRX 514 BPNC	FRRX 514 BPNC	GHRX 514 BPNC	FHRX 514 BPNC										
R 514 BPKC	GLRX 514 BPKC	FLRX 514 BPKC	GRRX 514 BPKC	FRRX 514 BPKC	GHRX 514 BPKC	FHRX 514 BPKC										
R 614 BZN	GLRX 614 BZN	FLRX 614 BZN	GRRX 614 BZN	FRRX 614 BZN	GHRX 614 BZN	FHRX 614 BZN	90	6" 150mm	1.1/2"	180	118	N	7/16"	7/16"	49	
R 614 BZLX	GLRX 614 BZLX	FLRX 614 BZLX	GRRX 614 BZLX	FRRX 614 BZLX	GHRX 614 BZLX	FHRX 614 BZLX										
R 614 BPNC	GLRX 614 BPNC	FLRX 614 BPNC	GRRX 614 BPNC	FRRX 614 BPNC	GHRX 614 BPNC	FHRX 614 BPNC										
R 614 BPKC	GLRX 614 BPKC	FLRX 614 BPKC	GRRX 614 BPKC	FRRX 614 BPKC	GHRX 614 BPKC	FHRX 614 BPKC										



NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA									kg	in/mm	in	mm	mm	mancal	in	mm
	LRX	RRX	HRX	HRX												
R 414 NNZN	GLRX 414 NNZN	FLRX 414 NNZN	GRRX 414 NNZN	FRRX 414 NNZN	GHRX 414 NNZN	FHRX 414 NNZN	140	4" 100mm	1.1/2"	128	92	N	7/16"	7/16"	49	
R 414 NNZLX	GLRX 414 NNZLX	FLRX 414 NNZLX	GRRX 414 NNZLX	FRRX 414 NNZLX	GHRX 414 NNZLX	FHRX 414 NNZLX										
R 414 NNNC	GLRX 414 NNNC	FLRX 414 NNNC	GRRX 414 NNNC	FRRX 414 NNNC	GHRX 414 NNNC	FHRX 414 NNNC										
R 414 NNKC	GLRX 414 NNKC	FLRX 414 NNKC	GRRX 414 NNKC	FRRX 414 NNKC	GHRX 414 NNKC	FHRX 414 NNKC										
R 514 NNZN	GLRX 514 NNZN	FLRX 514 NNZN	GRRX 514 NNZN	FRRX 514 NNZN	GHRX 514 NNZN	FHRX 514 NNZN	175	5" 125mm	1.1/2"	160	114	N	7/16"	7/16"	49	
R 514 NNZLX	GLRX 514 NNZLX	FLRX 514 NNZLX	GRRX 514 NNZLX	FRRX 514 NNZLX	GHRX 514 NNZLX	FHRX 514 NNZLX										
R 514 NNNC	GLRX 514 NNNC	FLRX 514 NNNC	GRRX 514 NNNC	FRRX 514 NNNC	GHRX 514 NNNC	FHRX 514 NNNC										
R 514 NNKC	GLRX 514 NNKC	FLRX 514 NNKC	GRRX 514 NNKC	FRRX 514 NNKC	GHRX 514 NNKC	FHRX 514 NNKC										
R 614 NNZN	GLRX 614 NNZN	FLRX 614 NNZN	GRRX 614 NNZN	FRRX 614 NNZN	GHRX 614 NNZN	FHRX 614 NNZN	210	6" 150mm	1.1/2"	180	118	N	7/16"	7/16"	49	
R 614 NNZLX	GLRX 614 NNZLX	FLRX 614 NNZLX	GRRX 614 NNZLX	FRRX 614 NNZLX	GHRX 614 NNZLX	FHRX 614 NNZLX										
R 614 NNNC	GLRX 614 NNNC	FLRX 614 NNNC	GRRX 614 NNNC	FRRX 614 NNNC	GHRX 614 NNNC	FHRX 614 NNNC										
R 614 NNKC	GLRX 614 NNKC	FLRX 614 NNKC	GRRX 614 NNKC	FRRX 614 NNKC	GHRX 614 NNKC	FHRX 614 NNKC										

ACESSÓRIOS

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Série	Ø x h										
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<p>CABEÇOTES</p> <div style="display: flex; justify-content: space-around;"> <div> <p>PLACA - LR</p> </div> <div> <p>ROSCA - RR</p> </div> <div> <p>EXPANSIVO - HR</p> </div> </div>	<p>TABELA DE EXPANSIVOS</p> <table border="1"> <thead> <tr> <th rowspan="2">TUBO</th> <th colspan="2">Variação do Excêntrico</th> <th rowspan="2">Ref. do Módulo</th> <th colspan="3">NATUREZA DO MÓDULO</th> <th colspan="2">MATERIAL DO MÓDULO</th> </tr> <tr> <th>Mínimo</th> <th>Máximo</th> <th>AL</th> <th>BO</th> <th>NY</th> <th>ALUMÍNIO</th> <th>AL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>21 mm</td> <td>22,5 mm</td> <td>GAMA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>ALUMÍNIO</td> <td>AL</td> </tr> <tr> <td>1.1/4</td> <td>27 mm</td> <td>28,5 mm</td> <td>DELTA</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.1/2</td> <td>35 mm</td> <td>37 mm</td> <td>EPSILON</td> <td>AL</td> <td>BO</td> <td>NY</td> <td>BORRACHA</td> <td>BO</td> </tr> <tr> <td>1.5/8</td> <td>36,5 mm</td> <td>38,5 mm</td> <td>DZETA</td> <td></td> <td>BO</td> <td></td> <td>NYLON</td> <td>NY</td> </tr> </tbody> </table>	TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO		Mínimo	Máximo	AL	BO	NY	ALUMÍNIO	AL	1	21 mm	22,5 mm	GAMA	AL	BO	NY	ALUMÍNIO	AL	1.1/4	27 mm	28,5 mm	DELTA	AL	BO	NY	BORRACHA	BO	1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO	1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY
TUBO	Variação do Excêntrico		Ref. do Módulo	NATUREZA DO MÓDULO			MATERIAL DO MÓDULO																																														
	Mínimo	Máximo		AL	BO	NY	ALUMÍNIO	AL																																													
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1.1/2	35 mm	37 mm	EPSILON	AL	BO	NY	BORRACHA	BO																																													
1.5/8	36,5 mm	38,5 mm	DZETA		BO		NYLON	NY																																													

Para especificar rodízios com expansivos, indicar a ref. e a natureza do módulo que constam na tabela acima. Ex: GHRX 414 BZL GAMA NY

SÉRIE 14 - LINHA - IR - CARGAS DE ATÉ 300 kg



NYLON - INJETADO
Dureza 75 Shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		IRR		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 NZN	GIR 414 NZN	FIR 414 NZN	GIRR 414 NZN	FIRR 414 NZN	125	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 NZL	GIR 414 NZL	FIR 414 NZL	GIRR 414 NZL	FIRR 414 NZL						L		7/16"		
R 414 NPNC	GIR 414 NPNC	FIR 414 NPNC	GIRR 414 NPNC	FIRR 414 NPNC						N		7/16"		
R 414 NPKC	GIR 414 NPKC	FIR 414 NPKC	GIRR 414 NPKC	FIRR 414 NPKC						K		K15		
R 514 NZN	GIR 514 NZN	FIR 514 NZN	GIRR 514 NZN	FIRR 514 NZN	160	5" 125mm	1.1/2"	166	104	N		7/16"		
R 514 NZL	GIR 514 NZL	FIR 514 NZL	GIRR 514 NZL	FIRR 514 NZL						L		7/16"		
R 514 NPNC	GIR 514 NPNC	FIR 514 NPNC	GIRR 514 NPNC	FIRR 514 NPNC						N		7/16"		
R 514 NPKC	GIR 514 NPKC	FIR 514 NPKC	GIRR 514 NPKC	FIRR 514 NPKC						K		K15		
R 614 NZN	GIR 614 NZN	FIR 614 NZN	GIRR 614 NZN	FIRR 614 NZN	170	6" 150mm	1.1/2"	188	116	N		7/16"		
R 614 NZL	GIR 614 NZL	FIR 614 NZL	GIRR 614 NZL	FIRR 614 NZL						L		7/16"		
R 614 NPNC	GIR 614 NPNC	FIR 614 NPNC	GIRR 614 NPNC	FIRR 614 NPNC						N		7/16"		
R 614 NPKC	GIR 614 NPKC	FIR 614 NPKC	GIRR 614 NPKC	FIRR 614 NPKC						K		K15		

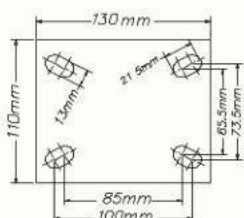


NYLON INJETADO - INTEGRAL
Dureza 75 Shore D - Temperatura de -40° C a 110° C

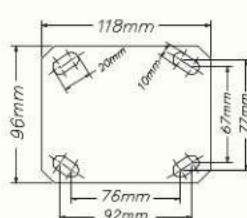
REFERÊNCIA	IR		IRR		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 NNZN	GIR 414 NNZN	FIR 414 NNZN	GIRR 414 NNZN	FIRR 414 NNZN	200	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 NNZL	GIR 414 NNZL	FIR 414 NNZL	GIRR 414 NNZL	FIRR 414 NNZL						L		7/16"		
R 414 NNNC	GIR 414 NNNC	FIR 414 NNNC	GIRR 414 NNNC	FIRR 414 NNNC						N		7/16"		
R 414 NNKC	GIR 414 NNKC	FIR 414 NNKC	GIRR 414 NNKC	FIRR 414 NNKC						K		K15		
R 514 NNZN	GIR 514 NNZN	FIR 514 NNZN	GIRR 514 NNZN	FIRR 514 NNZN	250	5" 125mm	1.1/2"	166	104	N		7/16"		
R 514 NNZL	GIR 514 NNZL	FIR 514 NNZL	GIRR 514 NNZL	FIRR 514 NNZL						L		7/16"		
R 514 NNNC	GIR 514 NNNC	FIR 514 NNNC	GIRR 514 NNNC	FIRR 514 NNNC						N		7/16"		
R 514 NNKC	GIR 514 NNKC	FIR 514 NNKC	GIRR 514 NNKC	FIRR 514 NNKC						K		K15		
R 614 NNZN	GIR 614 NNZN	FIR 614 NNZN	GIRR 614 NNZN	FIRR 614 NNZN	300	6" 150mm	1.1/2"	188	116	N		7/16"		
R 614 NNZL	GIR 614 NNZL	FIR 614 NNZL	GIRR 614 NNZL	FIRR 614 NNZL						L		7/16"		
R 614 NNNC	GIR 614 NNNC	FIR 614 NNNC	GIRR 614 NNNC	FIRR 614 NNNC						N		7/16"		
R 614 NNKC	GIR 614 NNKC	FIR 614 NNKC	GIRR 614 NNKC	FIRR 614 NNKC						K		K15		

ACESSÓRIOS

PLACA UNIVERSAL



PLACA AMERICANA



OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA



Ø1/2" x 25mm Rosca

Esp. Rosca

TIPOS DE MANCAIS

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

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



POLIPROPILENO - INJETADO
Dureza 75 Shore D - Temperatura de -20 a 70° C

REFERÊNCIA	IR		IRR		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 PZN	GIR 414 PZN	FIR 414 PZN	GIRR 414 PZN	FIRR 414 PZN	115	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 PZL	GIR 414 PZL	FIR 414 PZL	GIRR 414 PZL	FIRR 414 PZL						L		7/16"		
R 414 PPNC	GIR 414 PPNC	FIR 414 PPNC	GIRR 414 PPNC	FIRR 414 PPNC						N		7/16"		
R 414 PPKC	GIR 414 PPKC	FIR 414 PPKC	GIRR 414 PPKC	FIRR 414 PPKC						K		K15		
R 514 PZN	GIR 514 PZN	FIR 514 PZN	GIRR 514 PZN	FIRR 514 PZN	150	5" 125mm	1.1/2"	166	104	N		7/16"	7/16"	49
R 514 PZL	GIR 514 PZL	FIR 514 PZL	GIRR 514 PZL	FIRR 514 PZL						L		7/16"		
R 514 PPNC	GIR 514 PPNC	FIR 514 PPNC	GIRR 514 PPNC	FIRR 514 PPNC						N		7/16"		
R 514 PPKC	GIR 514 PPKC	FIR 514 PPKC	GIRR 514 PPKC	FIRR 514 PPKC						K		K15		
R 614 PZN	GIR 614 PZN	FIR 614 PZN	GIRR 614 PZN	FIRR 614 PZN	160	6" 150mm	1.1/2"	188	116	N		7/16"	7/16"	49
R 614 PZL	GIR 614 PZL	FIR 614 PZL	GIRR 614 PZL	FIRR 614 PZL						L		7/16"		
R 614 PPNC	GIR 614 PPNC	FIR 614 PPNC	GIRR 614 PPNC	FIRR 614 PPNC						N		7/16"		
R 614 PPKC	GIR 614 PPKC	FIR 614 PPKC	GIRR 614 PPKC	FIRR 614 PPKC						K		K15		



FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de -40 a 110° C

REFERÊNCIA	IR		IRR		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 FN	GIR 414 FN	FIR 414 FN	GIRR 414 FN	FIRR 414 FN	250	4"	1.1/2"	130	94	N		7/16"	7/16"	49
R 514 FN	GIR 514 FN	FIR 514 FN	GIRR 514 FN	FIRR 514 FN	300	5"		166	104	N		7/16"		
R 614 FN	GIR 614 FN	FIR 614 FN	GIRR 614 FN	FIRR 614 FN	350	6"		188	116	N		7/16"		

Dureza Brinell: 150 HB - Temperatura de -40 a 400° C

R 414 FK	GIR 414 FK	FIR 414 FK	GIRR 414 FK	FIRR 414 FK	250	4"	1.1/2"	130	94	K		K15	7/16"	49
R 514 FK	GIR 514 FK	FIR 514 FK	GIRR 514 FK	FIRR 514 FK	300	5"		166	104	K		K15		
R 614 FK	GIR 614 FK	FIR 614 FK	GIRR 614 FK	FIRR 614 FK	350	6"		188	116	K		K15		



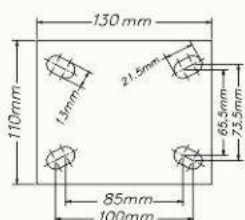
BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

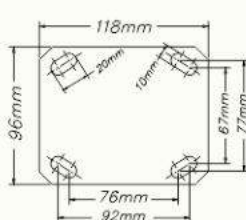
REFERÊNCIA	IR		IRR		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 BFN	GIR 414 BFN	FIR 414 BFN	GIRR 414 BFN	FIRR 414 BFN	150	4"	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 BFK	GIR 414 BFK	FIR 414 BFK	GIRR 414 BFK	FIRR 414 BFK						K		K15		
R 514 BFN	GIR 514 BFN	FIR 514 BFN	GIRR 514 BFN	FIRR 514 BFN	175	5"	1.1/2"	166	104	N		7/16"	7/16"	49
R 514 BFK	GIR 514 BFK	FIR 514 BFK	GIRR 514 BFK	FIRR 514 BFK						K		K15		
R 614 BFN	GIR 614 BFN	FIR 614 BFN	GIRR 614 BFN	FIRR 614 BFN	200	6"	1.1/2"	188	116	N		7/16"	7/16"	49
R 614 BFK	GIR 614 BFK	FIR 614 BFK	GIRR 614 BFK	FIRR 614 BFK						K		K15		

ACESSÓRIOS

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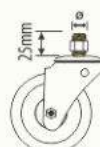


OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA



Ø1/2" x 25mm Rosca

Esp. Rosca

TIPOS DE MANCAIS

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

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



POLIURETANO - MOLDADO

Dureza: 60 shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		IR		kg	in/mm	in	mm	mm	mancal		in	mm	
R 414 UFKN	GIR 414 UFKN	FIR 414 UFKN	GIRR 414 UFKN	FIRR 414 UFKN	250	4"	1.1/2"	130	94	K		K15	7/16"	49
R 514 UFKN	GIR 514 UFKN	FIR 514 UFKN	GIRR 514 UFKN	FIRR 514 UFKN	300	5"	1.1/2"	166	104	K		K15		
R 614 UFKN	GIR 614 UFKN	FIR 614 UFKN	GIRR 614 UFKN	FIRR 614 UFKN	350	6"	1.1/2"	188	116	K		K15		



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		IR		kg	in/mm	in	mm	mm	mancal		in	mm		
R 414 UFN	GIR 414 UFN	FIR 414 UFN	GIRR 414 UFN	FIRR 414 UFN	250	4"	100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 UFK	GIR 414 UFK	FIR 414 UFK	GIRR 414 UFK	FIRR 414 UFK							K		K15		
R 514 UFN	GIR 514 UFN	FIR 514 UFN	GIRR 514 UFN	FIRR 514 UFN	300	5"	125mm	1.1/2"	166	104	N		7/16"		
R 514 UFK	GIR 514 UFK	FIR 514 UFK	GIRR 514 UFK	FIRR 514 UFK							K		K15		
R 614 UFN	GIR 614 UFN	FIR 614 UFN	GIRR 614 UFN	FIRR 614 UFN	350	6"	150mm	1.1/2"	188	116	N		7/16"		
R 614 UFK	GIR 614 UFK	FIR 614 UFK	GIRR 614 UFK	FIRR 614 UFK							K		K15		



CELERON

Dureza Brinell: 25 HB - Temperatura de -30 a 120° C

REFERÊNCIA	IR		IR		kg	in/mm	in	mm	mm	mancal		in	mm	
R 414 C	GIR 414 C	FIR 414 C	GIRR 414 C	FIRR 414 C	200	4"	1.1/2"	130	94			7/16"	7/16"	49
R 514 C	GIR 514 C	FIR 514 C	GIRR 514 C	FIRR 514 C	250	5"		166	104			7/16"		
R 614 C	GIR 614 C	FIR 614 C	GIRR 614 C	FIRR 614 C	300	6"		188	116			7/16"		



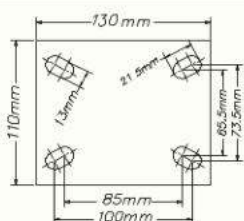
POLIURETANO COM DUPLA CAMADA - MOLDADO - ALUMÍNIO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

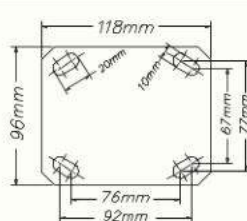
REFERÊNCIA	IR		IR		kg	in/mm	in	mm	mm	mancal		in	mm	
R 514 UAK	GIR 514 UAK	FIR 514 UAK	GIRR 514 UAK	FIRR 514 UAK	300	5"	1.1/2"	166	104	K		K15	7/16"	49

ACESSÓRIOS

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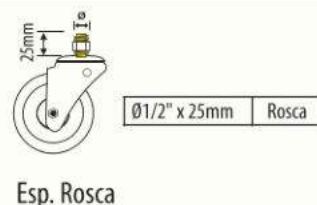
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OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA



TIPOS DE MANCAIS

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

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

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA					kg	in/mm	in	mm	mm	mancal			in	mm
	IRX		IRRX											
R 414 BZN	GIRX 414 BZN	FIRX 414 BZN	GIRRX 414 BZN	FIRRX 414 BZN	60	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 BZL	GIRX 414 BZL	FIRX 414 BZL	GIRRX 414 BZL	FIRRX 414 BZL						L		7/16"		
R 414 BPNC	GIRX 414 BPNC	FIRX 414 BPNC	GIRRX 414 BPNC	FIRRX 414 BPNC						N		7/16"		
R 414 BPKC	GIRX 414 BPKC	FIRX 414 BPKC	GIRRX 414 BPKC	FIRRX 414 BPKC						K		K15		
R 514 BZN	GIRX 514 BZN	FIRX 514 BZN	GIRRX 514 BZN	FIRRX 514 BZN	80	5" 125mm	1.1/2"	166	104	N		7/16"		
R 514 BZL	GIRX 514 BZL	FIRX 514 BZL	GIRRX 514 BZL	FIRRX 514 BZL						L		7/16"		
R 514 BPNC	GIRX 514 BPNC	FIRX 514 BPNC	GIRRX 514 BPNC	FIRRX 514 BPNC						N		7/16"		
R 514 BPKC	GIRX 514 BPKC	FIRX 514 BPKC	GIRRX 514 BPKC	FIRRX 514 BPKC						K		K15		
R 614 BZN	GIRX 614 BZN	FIRX 614 BZN	GIRRX 614 BZN	FIRRX 614 BZN	90	6" 150mm	1.1/2"	188	116	N		7/16"		
R 614 BZL	GIRX 614 BZL	FIRX 614 BZL	GIRRX 614 BZL	FIRRX 614 BZL						L		7/16"		
R 614 BPNC	GIRX 614 BPNC	FIRX 614 BPNC	GIRRX 614 BPNC	FIRRX 614 BPNC						N		7/16"		
R 614 BPKC	GIRX 614 BPKC	FIRX 614 BPKC	GIRRX 614 BPKC	FIRRX 614 BPKC						K		K15		

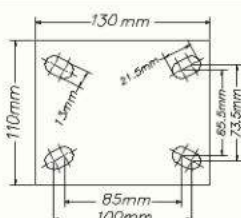


NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA					kg	in/mm	in	mm	mm	mancal			in	mm
	IRX		IRRX											
R 414 NNZN	GIRX 414 NNZN	FIRX 414 NNZN	GIRRX 414 NNZN	FIRRX 414 NNZN	140	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 NNZL	GIRX 414 NNZL	FIRX 414 NNZL	GIRRX 414 NNZL	FIRRX 414 NNZL						L		7/16"		
R 414 NNNC	GIRX 414 NNNC	FIRX 414 NNNC	GIRRX 414 NNNC	FIRRX 414 NNNC						N		7/16"		
R 414 NNKC	GIRX 414 NNKC	FIRX 414 NNKC	GIRRX 414 NNKC	FIRRX 414 NNKC						K		K15		
R 514 NNZN	GIRX 514 NNZN	FIRX 514 NNZN	GIRRX 514 NNZN	FIRRX 514 NNZN	175	5" 125mm	1.1/2"	166	104	N		7/16"		
R 514 NNZL	GIRX 514 NNZL	FIRX 514 NNZL	GIRRX 514 NNZL	FIRRX 514 NNZL						L		7/16"		
R 514 NNNC	GIRX 514 NNNC	FIRX 514 NNNC	GIRRX 514 NNNC	FIRRX 514 NNNC						N		7/16"		
R 514 NNKC	GIRX 514 NNKC	FIRX 514 NNKC	GIRRX 514 NNKC	FIRRX 514 NNKC						K		K15		
R 614 NNZN	GIRX 614 NNZN	FIRX 614 NNZN	GIRRX 614 NNZN	FIRRX 614 NNZN	210	6" 150mm	1.1/2"	188	116	N		7/16"		
R 614 NNZL	GIRX 614 NNZL	FIRX 614 NNZL	GIRRX 614 NNZL	FIRRX 614 NNZL						L		7/16"		
R 614 NNNC	GIRX 614 NNNC	FIRX 614 NNNC	GIRRX 614 NNNC	FIRRX 614 NNNC						N		7/16"		
R 614 NNKC	GIRX 614 NNKC	FIRX 614 NNKC	GIRRX 614 NNKC	FIRRX 614 NNKC						K		K15		

ACESSÓRIOS

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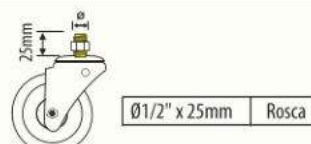


OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA



Esp. Rosca

TIPOS DE MANCAIS



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

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	IRX		IRRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 BZN	GIRX 414 BZN	FIRX 414 BZN	GIRRX 414 BZN	FIRRX 414 BZN	60	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414 BZLX	GIRX 414 BZLX	FIRX 414 BZLX	GIRRX 414 BZLX	FIRRX 414 BZLX						L		7/16"		
R 414 BPNC	GIRX 414 BPNC	FIRX 414 BPNC	GIRRX 414 BPNC	FIRRX 414 BPNC						N		7/16"		
R 414 BPKC	GIRX 414 BPKC	FIRX 414 BPKC	GIRRX 414 BPKC	FIRRX 414 BPKC						K		K15		
R 514 BZN	GIRX 514 BZN	FIRX 514 BZN	GIRRX 514 BZN	FIRRX 514 BZN	80	5" 125mm	1.1/2"	166	104	N		7/16"	7/16"	49
R 514 BZLX	GIRX 514 BZLX	FIRX 514 BZLX	GIRRX 514 BZLX	FIRRX 514 BZLX						L		7/16"		
R 514 BPNC	GIRX 514 BPNC	FIRX 514 BPNC	GIRRX 514 BPNC	FIRRX 514 BPNC						N		7/16"		
R 514 BPKC	GIRX 514 BPKC	FIRX 514 BPKC	GIRRX 514 BPKC	FIRRX 514 BPKC						K		K15		
R 614 BZN	GIRX 614 BZN	FIRX 614 BZN	GIRRX 614 BZN	FIRRX 614 BZN	90	6" 150mm	1.1/2"	188	116	N		7/16"	7/16"	49
R 614 BZLX	GIRX 614 BZLX	FIRX 614 BZLX	GIRRX 614 BZLX	FIRRX 614 BZLX						L		7/16"		
R 614 BPNC	GIRX 614 BPNC	FIRX 614 BPNC	GIRRX 614 BPNC	FIRRX 614 BPNC						N		7/16"		
R 614 BPKC	GIRX 614 BPKC	FIRX 614 BPKC	GIRRX 614 BPKC	FIRRX 614 BPKC						K		K15		

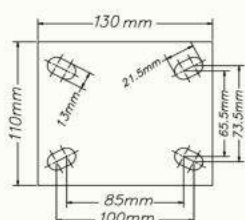


NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	IRX		IRRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 414 NNZN	GIRX 414 NNZN	FIRX 414 NNZN	GIRRX 414 NNZN	FIRRX 414 NNZN	140	4" 100mm	1.1/2"	130	94	N		7/16"	7/16"	49
R 414>NNLX	GIRX 414>NNLX	FIRX 414>NNLX	GIRRX 414>NNLX	FIRRX 414>NNLX						L		7/16"		
R 414>NNNC	GIRX 414>NNNC	FIRX 414>NNNC	GIRRX 414>NNNC	FIRRX 414>NNNC						N		7/16"		
R 414>NNKC	GIRX 414>NNKC	FIRX 414>NNKC	GIRRX 414>NNKC	FIRRX 414>NNKC						K		K15		
R 514 NNZN	GIRX 514 NNZN	FIRX 514 NNZN	GIRRX 514 NNZN	FIRRX 514 NNZN	175	5" 125mm	1.1/2"	166	104	N		7/16"	7/16"	49
R 514>NNLX	GIRX 514>NNLX	FIRX 514>NNLX	GIRRX 514>NNLX	FIRRX 514>NNLX						L		7/16"		
R 514>NNNC	GIRX 514>NNNC	FIRX 514>NNNC	GIRRX 514>NNNC	FIRRX 514>NNNC						N		7/16"		
R 514>NNKC	GIRX 514>NNKC	FIRX 514>NNKC	GIRRX 514>NNKC	FIRRX 514>NNKC						K		K15		
R 614 NNZN	GIRX 614 NNZN	FIRX 614 NNZN	GIRRX 614 NNZN	FIRRX 614 NNZN	210	6" 150mm	1.1/2"	188	116	N		7/16"	7/16"	49
R 614>NNLX	GIRX 614>NNLX	FIRX 614>NNLX	GIRRX 614>NNLX	FIRRX 614>NNLX						L		7/16"		
R 614>NNNC	GIRX 614>NNNC	FIRX 614>NNNC	GIRRX 614>NNNC	FIRRX 614>NNNC						N		7/16"		
R 614>NNKC	GIRX 614>NNKC	FIRX 614>NNKC	GIRRX 614>NNKC	FIRRX 614>NNKC						K		K15		

ACESSÓRIOS

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OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA



Esp. Rosca

Ø1/2" x 25mm Rosca

TIPOS DE MANCAIS

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

SÉRIE 16 - LINHA IR INOX - CARGAS DE ATÉ 210 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA SÉRIE E - INOX

Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA					kg	in/mm	in	mm	mm	mancal			in	mm
	IRX		IRRX											
R 816E BPN	GIRX 816E BPN	FIRX 816E BPN	GIRRX 816E BPN	FIRRX 816E BPN	125	245	154	8" 200mm	1.5/8"	N		7/8"	5/8"	62
R 816E BPL	GIRX 816E BPL	FIRX 816E BPL	GIRRX 816E BPL	FIRRX 816E BPL						L		7/8"		
R 816E BPK	GIRX 816E BPK	FIRX 816E BPK	GIRRX 816E BPK	FIRRX 816E BPK						K		K20"		
R 1016E BPN	GIRX 1016E BPN	FIRX 1016E BPN	GIRRX 1016E BPN	FIRRX 1016E BPN	175	280	186	10" 250mm	1.5/8"	N		7/8"		
R 1016E BPL	GIRX 1016E BPL	FIRX 1016E BPL	GIRRX 1016E BPL	FIRRX 1016E BPL						L		7/8"		
R 1016E BPK	GIRX 1016E BPK	FIRX 1016E BPK	GIRRX 1016E BPK	FIRRX 1016E BPK						K		K20"		



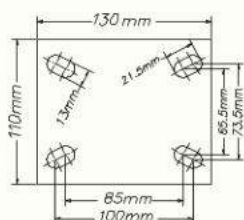
BORRACHA - INJETADA - INOX

Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA					kg	in/mm	in	mm	mm	mancal			in	mm
	IRX		IRRX											
R 816 BPN	GIRX 816 BPN	FIRX 816 BPN	GIRRX 816 BPN	FIRRX 816 BPN	140	245	154	8" 200mm	1.3/4"	N		7/8"	5/8"	62
R 816 BPL	GIRX 816 BPL	FIRX 816 BPL	GIRRX 816 BPL	FIRRX 816 BPL						L		7/8"		
R 816 BPK	GIRX 816 BPK	FIRX 816 BPK	GIRRX 816 BPK	FIRRX 816 BPK						K		K20"		
R 916 BPN	GIRX 916 BPN	FIRX 916 BPN	GIRRX 916 BPN	FIRRX 916 BPN	175	280	176	9" 225mm	1.3/4"	N		7/8"		
R 916 BPL	GIRX 916 BPL	FIRX 916 BPL	GIRRX 916 BPL	FIRRX 916 BPL						L		7/8"		
R 916 BPK	GIRX 916 BPK	FIRX 916 BPK	GIRRX 916 BPK	FIRRX 916 BPK						K		K20"		
R 1016 BPN	GIRX 1016 BPN	FIRX 1016 BPN	GIRRX 1016 BPN	FIRRX 1016 BPN	210	285	186	10" 250mm	1.3/4"	N		7/8"		
R 1016 BPL	GIRX 1016 BPL	FIRX 1016 BPL	GIRRX 1016 BPL	FIRRX 1016 BPL						L		7/8"		
R 1016 BPK	GIRX 1016 BPK	FIRX 1016 BPK	GIRRX 1016 BPK	FIRRX 1016 BPK						K		K20"		

ACESSÓRIOS

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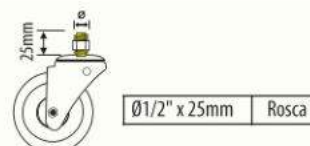


OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA



Esp. Rosca

TIPOS DE MANCAIS

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

SÉRIE 16 - LINHA IR INOX - CARGAS DE ATÉ 210 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA SÉRIE E - INOX

Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA					kg	in/mm	in	mm	mm	mancal			in	mm
	IRX		IRRX											
R 816E BPN	GIRX 816E BPN	FIRX 816E BPN	GIRRX 816E BPN	FIRRX 816E BPN	125	8" 200mm	1.5/8"	245	154	N		7/8"	5/8"	62
R 816E BPLX	GIRX 816E BPLX	FIRX 816E BPLX	GIRRX 816E BPLX	FIRRX 816E BPLX						L		7/8"		
R 816E BPK	GIRX 816E BPK	FIRX 816E BPK	GIRRX 816E BPK	FIRRX 816E BPK						K		K20"		
R 1016E BPN	GIRX 1016E BPN	FIRX 1016E BPN	GIRRX 1016E BPN	FIRRX 1016E BPN	175	10" 250mm	1.5/8"	280	186	N		7/8"		
R 1016E BPLX	GIRX 1016E BPLX	FIRX 1016E BPLX	GIRRX 1016E BPLX	FIRRX 1016E BPLX						L		7/8"		
R 1016E BPK	GIRX 1016E BPK	FIRX 1016E BPK	GIRRX 1016E BPK	FIRRX 1016E BPK						K		K20		



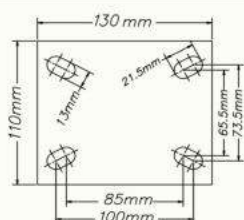
BORRACHA - INJETADA - INOX

Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA					kg	in/mm	in	mm	mm	mancal			in	mm
	IRX		IRRX											
R 816 BPN	GIRX 816 BPN	FIRX 816 BPN	GIRRX 816 BPN	FIRRX 816 BPN	140	8" 200mm	1.3/4"	245	154	N		7/8"	5/8"	62
R 816 BPLX	GIRX 816 BPLX	FIRX 816 BPLX	GIRRX 816 BPLX	FIRRX 816 BPLX						L		7/8"		
R 816 BPK	GIRX 816 BPK	FIRX 816 BPK	GIRRX 816 BPK	FIRRX 816 BPK						K		K20		
R 916 BPN	GIRX 916 BPN	FIRX 916 BPN	GIRRX 916 BPN	FIRRX 916 BPN	175	9" 225mm	1.3/4"	280	176	N		7/8"		
R 916 BPLX	GIRX 916 BPLX	FIRX 916 BPLX	GIRRX 916 BPLX	FIRRX 916 BPLX						L		7/8"		
R 916 BPK	GIRX 916 BPK	FIRX 916 BPK	GIRRX 916 BPK	FIRRX 916 BPK						K		K20		
R 1016 BPN	GIRX 1016 BPN	FIRX 1016 BPN	GIRRX 1016 BPN	FIRRX 1016 BPN	210	10" 250mm	1.3/4"	285	186	N		7/8"		
R 1016 BPLX	GIRX 1016 BPLX	FIRX 1016 BPLX	GIRRX 1016 BPLX	FIRRX 1016 BPLX						L		7/8"		
R 1016 BPK	GIRX 1016 BPK	FIRX 1016 BPK	GIRRX 1016 BPK	FIRRX 1016 BPK						K		K20		

ACESSÓRIOS

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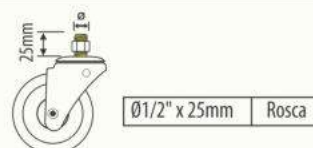


OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA



Esp. Rosca

TIPOS DE MANCAIS

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

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



NYLON - INJETADO
Dureza 75 Shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NPN	GIR 52 NPN	FIR 52 NPN	350	5" 125mm	2"	166	107	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	6" 150mm	2"	191	122	N		5/8"		
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	8" 200mm	2"	248	154	N		7/8"	5/8"	62
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	10" 250mm	2"	293	186	N		7/8"		
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
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 NN	GIR 42 NN	FIR 42 NN	300	4" 100mm	2"	137	90	N		5/8"	1/2"	62
R 42 NL	GIR 42 NL	FIR 42 NL						L		5/8"		
R 42 NK	GIR 42 NK	FIR 42 NK						K		K15		
R 52 NNN	GIR 52 NNN	FIR 52 NNN	350	5" 125mm	2"	166	107	N		5/8"		
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	6" 150mm	2"	191	122	N		5/8"	5/8"	62
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	8" 200mm	2"	248	154	N		7/8"		
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	10" 250mm	2"	293	186	N		7/8"		
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	OPÇÃO DE FREIO	FIXAÇÃO POR ESPIGA	TIPOS DE MANCAIS						
		<p>Freio "OA"</p>	<table border="1"> <tr> <td>Ø 31,75 mm x 150 mm</td> <td>Lisa</td> </tr> <tr> <td>Ø 33,5 mm x 150 mm</td> <td>Lisa</td> </tr> <tr> <td>Ø 1/2" x 25mm</td> <td>Rosca</td> </tr> </table>	Ø 31,75 mm x 150 mm	Lisa	Ø 33,5 mm x 150 mm	Lisa	Ø 1/2" x 25mm	Rosca	<ul style="list-style-type: none"> Bucha de Nylon Grafitado Rolamento de Roletes Rolamento de esferas blindado
Ø 31,75 mm x 150 mm	Lisa									
Ø 33,5 mm x 150 mm	Lisa									
Ø 1/2" x 25mm	Rosca									

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



POLIPROPILENO - INJETADO
Dureza 75 Shore D - Temperatura de -20 a 70° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 PPN	GIR 52 PPN	FIR 52 PPN	325	5" 125mm	2"	166	107	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	6" 150mm	2"	191	122	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		

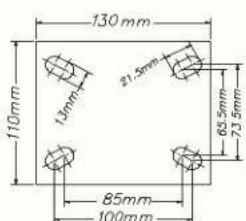


POLIURETANO - MOLDADO - NYLON
Dureza: 90 shore A - Temperatura de -20° C a 70° C

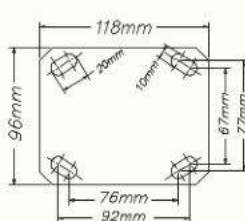
REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UNNM	GIR 52 UNNM	FIR 52 UNNM	350	5" 125mm	2"	163	107	N		5/8"	1/2"	62
R 52 UNLM	GIR 52 UNLM	FIR 52 UNLM						L		5/8"		
R 52 UNKM	GIR 52 UNKM	FIR 52 UNKM						K		K15		
R 62 UNNM	GIR 62 UNNM	FIR 62 UNNM	400	6" 150mm	2"	188	122	N		5/8"		
R 62 UNLM	GIR 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	8" 200mm	2"	245	154	N		7/8"	5/8"	62
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	10" 250mm	2"	293	186	N		7/8"		
R 102 UNLM	GIR 102 UNLM	FIR 102 UNLM						L		7/8"		
R 102 UNKM	GIR 102 UNKM	FIR 102 UNKM						K		K20		

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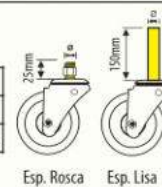


OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

Ø 31,75 mm x 150 mm	Lisa
Ø 33,5 mm x 150 mm	Lisa
Ø 1/2" x 25mm	Rosca



TIPOS DE MANCAIS



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



FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

REFERÊNCIA	IR		kg	in	in	mm	mm	mancal			in	mm
R 52 FK	GIR 52 FK	FIR 52 FK	400	5"	2"	163	107	K		K15	1/2"	62
R 62 FK	GIR 62 FK	FIR 62 FK	450	6"	2"	188	122	K		K15		
R 82 FK	GIR 82 FK	FIR 82 FK	500	8"	2"	245	154	K		K20	5/8"	
R 102 FK	GIR 102 FK	FIR 102 FK	600	10"	2"	290	186	K		K20		



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de - 20° C a 70° C

REFERÊNCIA	IR		kg	in	in	mm	mm	mancal			in	mm
R 52 BFN	GIR 52 BFN	FIR 52 BFN	200	5"	2"	166	107	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	6"	2"	191	122	N		5/8"	1/2"	62
R 62 BFK	GIR 62 BFK	FIR 62 BFK						K		K15		
R 82 BFK	GIR 82 BFK	FIR 82 BFK	300	8"	2"	248	154	K		K20	5/8"	
R 102 BFK	GIR 102 BFK	FIR 102 BFK	350	10"	2"	293	186	K		K20		



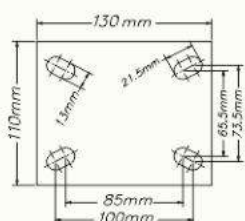
POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de - 20° C a 70° C

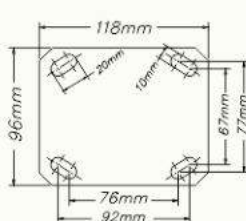
REFERÊNCIA	IR		kg	in	in	mm	mm	mancal			in	mm
R 42 UFN	GIR 42 UFN	FIR 42 UFN	400	4"	2"	137	90	N		5/8"	1/2"	62
R 42 UFK	GIR 42 UFK	FIR 42 UFK						K		K15		
R 52 UFN	GIR 52 UFN	FIR 52 UFN	400	5"	2"	163	107	N		5/8"	1/2"	62
R 52 UFK	GIR 52 UFK	FIR 52 UFK						K		K15		
R 62 UFN	GIR 62 UFN	FIR 62 UFN	450	6"	2"	188	122	N		5/8"	1/2"	62
R 62 UFK	GIR 62 UFK	FIR 62 UFK						K		K15		
R 82 UFK	GIR 82 UFK	FIR 82 UFK	500	8"	2"	245	154	K		K20	5/8"	
R 102 UFK	GIR 102 UFK	FIR 102 UFK	600	10"	2"	290	186	K		K20		

ACESSÓRIOS

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PLACA AMERICANA



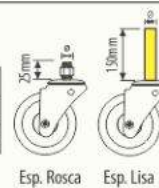
OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA

Ø 31,75 mm x 150 mm	Lisa
Ø 33,5 mm x 150 mm	Lisa
Ø 1/2" x 25mm	Rosca



TIPOS DE MANCAIS



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



POLIURETANO - MOLDADO - ROUND

Dureza: 60 shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UFKRV	GIR 52 UFKRV	FIR 52 UFKRV	350	5" 125mm	2"	163	107	K		K15	1/2"	62
R 62 UFKRV	GIR 62 UFKRV	FIR 62 UFKRV	400	6" 150mm	2"	188	122	K		K15		
R 82 UFKRV	GIR 82 UFKRV	FIR 82 UFKRV	500	8" 200mm	2"	245	154	K		K20	5/8"	
R 102 UFKRV	GIR 102 UFKRV	FIR 102 UFKRV	600	10" 250mm	2"	290	186	K		K20		



POLIURETANO - MOLDADO - ROUND

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UFKRA	GIR 52 UFKRA	FIR 52 UFKRA	350	5" 125mm	2"	163	107	K		K15	1/2"	62
R 62 UFKRA	GIR 62 UFKRA	FIR 62 UFKRA	400	6" 150mm	2"	188	122	K		K15		
R 82 UFKRA	GIR 82 UFKRA	FIR 82 UFKRA	500	8" 200mm	2"	245	154	K		K20	5/8"	
R 102 UFKRA	GIR 102 UFKRA	FIR 102 UFKRA	600	10" 250mm	2"	290	186	K		K20		



POLIURETANO COM DUPLA CAMADA - MOLDADO - ALUMÍNIO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UAK	GIR 52 UAK	FIR 52 UAK	400	5" 125mm	2"	163	107	K		K15	1/2"	62
R 62 UAK	GIR 62 UAK	FIR 62 UAK	450	6" 150mm	2"	188	122	K		K15		
R 82 UAK	GIR 82 UAK	FIR 82 UAK	500	8" 200mm	2"	245	154	K		K20	5/8"	



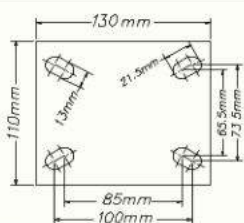
BORRACHA COM DUPLA CAMADA - AZUL, CINZA OU PRETO

Dureza 65 Shore A - Temperatura de -20° C a 70° C

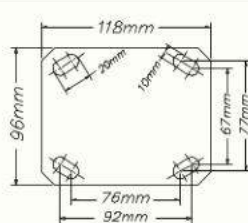
REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 2BFK	GIR 52 2BFK	FIR 52 2BFK	200	5" 125mm	2"	166	107	K		K15	1/2"	62
R 62 2BFK	GIR 62 2BFK	FIR 62 2BFK	250	6" 150mm	2"	191	122	K		K15		
R 82 2BFK	GIR 82 2BFK	FIR 82 2BFK	300	8" 200mm	2"	248	154	K		K20	5/8"	
R 102 2BFK	GIR 102 2BFK	FIR 102 2BFK	350	10" 250mm	2"	293	186	K		K20		

ACESSÓRIOS

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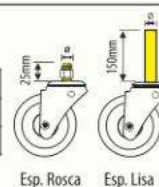


OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

Ø 31,75 mm x 150 mm	Lisa
Ø 33,5 mm x 150 mm	Lisa
Ø 1/2" x 25mm	Rosca



TIPOS DE MANCAIS



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



POLIURETANO ALTA PERFORMANCE BORDÔ

Dureza: 95 shore A - Temperatura de -40° C a 100° C

REFERÊNCIA	IR		kg	in	in	mm	mm	mancal			in	mm
R 42 UFHK	GIR 42 UFHK	FIR 42 UFHK	400	4"	2"	137	90	K		K15	1/2"	62
R 52 UFHK	GIR 52 UFHK	FIR 52 UFHK	400	5"	2"	163	107	K		K15		
R 62 UFHK	GIR 62 UFHK	FIR 62 UFHK	450	6"	2"	188	122	K		K15		
R 82 UFHK	GIR 82 UFHK	FIR 82 UFHK	500	8"	2"	245	154	K		K20	5/8"	
R 102 UFHK	GIR 102 UFHK	FIR 102 UFHK	600	10"	2"	290	186	K		K20		



CELERON

Dureza Brinell: 25 HB - Temperatura de -30 a 120° C

REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 CL	GIR 52 CL	FIR 52 CL	400	5" 125mm	2"	163	107	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	6" 150mm	2"	188	122	L		5/8"		
R 62 CK	GIR 62 CK	FIR 62 CK						K		K15		
R 82 CL	GIR 82 CL	FIR 82 CL	400	8" 200mm	2"	245	154	L		7/8"	5/8"	
R 82 CK	GIR 82 CK	FIR 82 CK						K		K20		



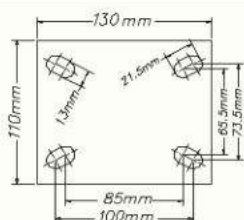
NYLON COM FIBRA DE VIDRO

Dureza: 75 shore D - Temperatura de -40° C a 180° C

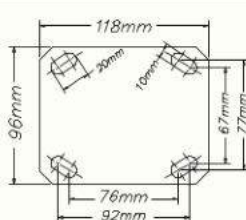
REFERÊNCIA	IR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NNVN	GIR 52 NNVN	FIR 52 NNVN	350	5" 125mm	2"	166	107	N		5/8"	1/2"	62
R 52 NNVK	GIR 52 NNVK	FIR 52 NNVK						K		K15		
R 62 NNVN	GIR 62 NNVN	FIR 62 NNVN	400	6" 150mm	2"	191	122	N		5/8"		
R 62 NNVK	GIR 62 NNVK	FIR 62 NNVK						K		K15		
R 82 NNVN	GIR 82 NNVN	FIR 82 NNVN	500	8" 200mm	2"	248	154	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	10" 250mm	2"	293	186	N		7/8"		
R 102 NNVK	GIR 102 NNVK	FIR 102 NNVK						K		K20		

ACESSÓRIOS

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PLACA AMERICANA

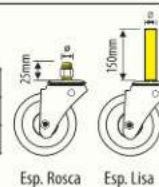


OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

Ø 31,75 mm x 150 mm	Lisa
Ø 33,5 mm x 150 mm	Lisa
Ø 1/2" x 25mm	Rosca



TIPOS DE MANCAIS



SÉRIE 2 /14 - LINHA - GIRELOA - CARGAS DE ATÉ 400 kg



RODÍZIO PARA ANDAIME

- ✓ 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)



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

ACESSÓRIOS

OPÇÃO DE FREIO

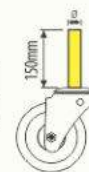


Freio "OA"

OBS: FREIO TRAVA OPCIONAL "OT"
(SOB CONSULTA)

FIXAÇÃO POR ESPIGA

Padrão	Ø 33,5 mm x 150 mm	Lisa
Opcional	Ø 31,75 mm x 150 mm	Lisa



TIPOS DE MANCAIS



Bucha de Nylon Grafitado



Rolamento de Roletes



Rolamento de esferas blindado

SÉRIE 2 - LINHA - IR - INOX - CARGAS DE ATÉ 420 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	IRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 BPN	GIRX 52 BPN	FIRX 52 BPN	140	5" 125mm	2"	166	107	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	6" 150mm	2"	191	122	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	8" 200mm	2"	248	154	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	10" 250mm	2"	293	186	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		

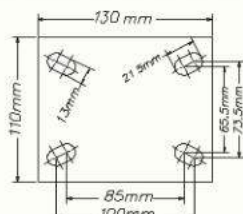


NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	IRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 NN	GIRX 42 NN	FIRX 42 NN	210	4" 100mm	2"	137	90	N		5/8"	1/2"	62
R 42 NL	GIRX 42 NL	FIRX 42 NL						L		5/8"		
R 42 NK	GIRX 42 NK	FIRX 42 NK						K		K15		
R 52 NNN	GIRX 52 NNN	FIRX 52 NNN	245	5" 125mm	2"	166	107	N		5/8"		
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	6" 150mm	2"	191	122	N		5/8"	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	8" 200mm	2"	248	154	N		7/8"		
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	10" 250mm	2"	293	186	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



OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

Ø1/2" x 25mm Rosca



TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 2 - LINHA - IR - INOX - CARGAS DE ATÉ 420 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

Rodas indicadas para equipamentos estacionários com pouca movimentação.

REFERÊNCIA	IRX		kg	in/mm	in	mm	mm	mancal			in	mm	
R 52 BPN	GIRX 52 BPN	FIRX 52 BPN	140	5" 125mm	2"	166	107	N		5/8"	1/2"	62	
R 52 BPLX	GIRX 52 BPLX	FIRX 52 BPLX						L		5/8"			
R 52 BPK	GIRX 52 BPK	FIRX 52 BPK						K		K15			
R 62 BPN	GIRX 62 BPN	FIRX 62 BPN	175	6" 150mm	2"	191	122	N		5/8"			
R 62 BPLX	GIRX 62 BPLX	FIRX 62 BPLX						L		5/8"			
R 62 BPK	GIRX 62 BPK	FIRX 62 BPK						K		K15			
R 82 BPN	GIRX 82 BPN	FIRX 82 BPN	210	8" 200mm	2"	248	154	N		7/8"			5/8"
R 82 BPLX	GIRX 82 BPLX	FIRX 82 BPLX						L		7/8"			
R 82 BPK	GIRX 82 BPK	FIRX 82 BPK						K		K20			
R 102 BPN	GIRX 102 BPN	FIRX 102 BPN	245	10" 250mm	2"	293	186	N		7/8"			
R 102 BPLX	GIRX 102 BPLX	FIRX 102 BPLX						L		7/8"			
R 102 BPK	GIRX 102 BPK	FIRX 102 BPK						K		K20			

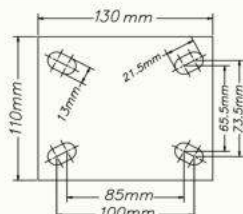


NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	IRX		kg	in/mm	in	mm	mm	mancal			in	mm	
R 42 NN	GIRX 42 NN	FIRX 42 NN	210	4" 100mm	2"	137	90	N		5/8"	1/2"	62	
R 42 NLX	GIRX 42 NLX	FIRX 42 NLX						L		5/8"			
R 42 NK	GIRX 42 NK	FIRX 42 NK						K		K15			
R 52 NNN	GIRX 52 NNN	FIRX 52 NNN	245	5" 125mm	2"	166	107	N		5/8"			
R 52>NNLX	GIRX 52>NNLX	FIRX 52>NNLX						L		5/8"			
R 52>NNK	GIRX 52>NNK	FIRX 52>NNK						K		K15			
R 62 NNN	GIRX 62 NNN	FIRX 62 NNN	280	6" 150mm	2"	191	122	N		5/8"			5/8"
R 62>NNLX	GIRX 62>NNLX	FIRX 62>NNLX						L		5/8"			
R 62>NNK	GIRX 62>NNK	FIRX 62>NNK						K		K15			
R 82 NNN	GIRX 82 NNN	FIRX 82 NNN	350	8" 200mm	2"	248	154	N		7/8"			
R 82>NNLX	GIRX 82>NNLX	FIRX 82>NNLX						L		7/8"			
R 82>NNK	GIRX 82>NNK	FIRX 82>NNK						K		K20			
R 102 NNN	GIRX 102 NNN	FIRX 102 NNN	420	10" 250mm	2"	293	186	N		7/8"			
R 102>NNLX	GIRX 102>NNLX	FIRX 102>NNLX						L		7/8"			
R 102>NNK	GIRX 102>NNK	FIRX 102>NNK						K		K20			

ACESSÓRIOS

PLACA UNIVERSAL



OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

Ø1/2" x 25mm Rosca



TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 2 - LINHA - IR - INOX - CARGAS DE ATÉ 420 kg

INOX
AÇO INOXIDÁVEL 304



POLIURETANO - MOLDADO - NYLON

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	IRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UNNM	GIRX 52 UNNM	FIRX 52 UNNM	245	5" 125mm	2"	163	107	N		5/8"	1/2"	62
R 52 UNLXM	GIRX 52 UNLXM	FIRX 52 UNLXM						L		5/8"		
R 52 UNKM	GIRX 52 UNKM	FIRX 52 UNKM						K		K15		
R 62 UNNM	GIRX 62 UNNM	FIRX 62 UNNM	280	6" 150mm	2"	188	122	N		5/8"	1/2"	62
R 62 UNLXM	GIRX 62 UNLXM	FIRX 62 UNLXM						L		5/8"		
R 62 UNKM	GIRX 62 UNKM	FIRX 62 UNKM						K		K15		
R 82 UNNM	GIRX 82 UNNM	FIRX 82 UNNM	350	8" 200mm	2"	245	154	N		7/8"	5/8"	62
R 82 UNLXM	GIRX 82 UNLXM	FIRX 82 UNLXM						L		7/8"		
R 82 UNKM	GIRX 82 UNKM	FIRX 82 UNKM						K		K20		
R 102 UNNM	GIRX 102 UNNM	FIRX 102 UNNM	420	10" 250mm	2"	290	186	N		7/8"	5/8"	62
R 102 UNLXM	GIRX 102 UNLXM	FIRX 102 UNLXM						L		7/8"		
R 102 UNKM	GIRX 102 UNKM	FIRX 102 UNKM						K		K20		



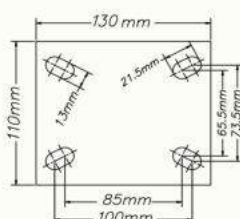
NYLON COM FIBRA DE VIDRO

Dureza: 75 shore D - Temperatura de -40° C a 180° C

REFERÊNCIA	IRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NNVN	GIRX 52 NNVN	FIRX 52 NNVN	245	5" 125mm	2"	166	107	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	6" 150mm	2"	191	122	N		5/8"	1/2"	62
R 62 NNVK	GIRX 62 NNVK	FIRX 62 NNVK						K		K15		
R 82 NNVN	GIRX 82 NNVN	FIRX 82 NNVN	350	8" 200mm	2"	248	154	N		7/8"	5/8"	62
R 82 NNVK	GIRX 82 NNVK	FIRX 82 NNVK						K		K20		
R 102 NNVN	GIRX 102 NNVN	FIRX 102 NNVN	420	10" 250mm	2"	293	186	N		7/8"	5/8"	62
R 102 NNVK	GIRX 102 NNVK	FIRX 102 NNVK						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



OPÇÃO DE FREIO



Freio "OA"

FIXAÇÃO POR ESPIGA

Ø1/2" x 25mm Rosca



Esp. Rosca

TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



NYLON - INJETADO
Dureza 75 Shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NPN	GMR 52 NPN	FMR 52 NPN	350	5" 125mm	2"	166	110	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	6" 150mm	2"	196	133	N		5/8"		
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	8" 200mm	2"	237	173	N		7/8"	5/8"	62
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	10" 250mm	2"	291	189	N		7/8"		
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
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 NN	GMR 42 NN	FMR 42 NN	300	4" 100mm	2"	140	88	N		5/8"	1/2"	62
R 42 NL	GMR 42 NL	FMR 42 NL						L		5/8"		
R 42 NK	GMR 42 NK	FMR 42 NK						K		K15		
R 52 NNN	GMR 52 NNN	FMR 52 NNN	500	5" 125mm	2"	166	110	N		5/8"		
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	6" 150mm	2"	196	133	N		5/8"	5/8"	62
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	8" 200mm	2"	237	173	N		7/8"		
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	10" 250mm	2"	291	189	N		7/8"		
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	OPÇÃO DE FREIO	FIXAÇÃO POR ESPIGA	TIPOS DE MANCAIS				
		<p>Freio "OP"</p>	<table border="1"> <tr> <td>Ø 31,75 mm x 150 mm</td> <td>Lisa</td> </tr> <tr> <td>Ø 33,5 mm x 150 mm</td> <td>Lisa</td> </tr> </table>	Ø 31,75 mm x 150 mm	Lisa	Ø 33,5 mm x 150 mm	Lisa	<ul style="list-style-type: none"> Bucha de Nylon Grafitado Rolamento de Roletes Rolamento de esferas blindado
Ø 31,75 mm x 150 mm	Lisa							
Ø 33,5 mm x 150 mm	Lisa							

SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



POLIPROPILENO - INJETADO
Dureza 75 Shore D - Temperatura de -20 a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 PPN	GMR 52 PPN	FMR 52 PPN	325	5" 125mm	2"	166	110	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	6" 150mm	2"	196	133	N		5/8"	1/2"	62
R 62 PPL	GMR 62 PPL	FMR 62 PPL						L		5/8"		
R 62 PPK	GMR 62 PPK	FMR 62 PPK						K		K15		



POLIURETANO - MOLDADO - NYLON
Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UNNM	GMR 52 UNNM	FMR 52 UNNM	475	5" 125mm	2"	164	110	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	6" 150mm	2"	194	133	N		5/8"	1/2"	62
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	8" 200mm	2"	234	173	N		7/8"	5/8"	62
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	10" 250mm	2"	288	189	N		7/8"	5/8"	62
R 102 UNLM	GMR 102 UNLM	FMR 102 UNLM						L		7/8"		
R 102 UNKM	GMR 102 UNKM	FMR 102 UNKM						K		K20		

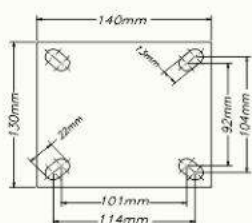


FERRO FUNDIDO
Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

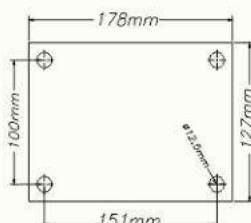
REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 52 FK	GMR 52 FK	FMR 52 FK	600	5"	2"	164	110	K		K15	1/2"	62
R 62 FK	GMR 62 FK	FMR 62 FK	600	6"	2"	194	133	K		K15		
R 82 FK	GMR 82 FK	FMR 82 FK	700	8"	2"	234	173	K		K20		
R 102 FK	GMR 102 FK	FMR 102 FK	700	10"	2"	288	189	K		K20	5/8"	62

ACESSÓRIOS

PLACA UNIVERSAL



PLACA OPCIONAL



OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

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



TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



BORRACHA - MOLDADA
Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 52 BFN	GMR 52 BFN	FMR 52 BFN	250	5"	2"	164	107	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	6"	2"	194	122	N		5/8"		
R 62 BFK	GMR 62 BFK	FMR 62 BFK						K		K15		
R 82 BFK	GMR 82 BFK	FMR 82 BFK	350	8"	2"	234	154	K		K20	5/8"	
R 102 BFK	GMR 102 BFK	FMR 102 BFK	450	10"	2"	288	186	K		K20		



POLIURETANO - MOLDADO
Dureza: 60 shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 42 UFK	GMR 42 UFK	FMR 42 UFK	500	4"	2"	140	88	K		K15	1/2"	62
R 52 UFK	GMR 52 UFK	FMR 52 UFK	600	5"	2"	164	110	K		K15		
R 62 UFK	GMR 62 UFK	FMR 62 UFK	600	6"	2"	194	133	K		K15		
R 82 UFK	GMR 82 UFK	FMR 82 UFK	700	8"	2"	234	173	K		K20	5/8"	
R 102 UFK	GMR 102 UFK	FMR 102 UFK	700	10"	2"	288	189	K		K20		

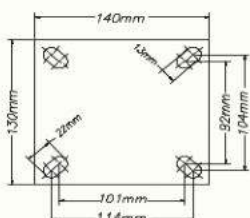


POLIURETANO - MOLDADO
Dureza: 90 shore A - Temperatura de -20° C a 70° C

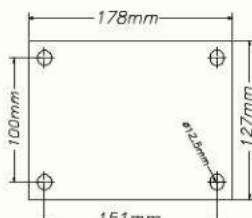
REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 42 UFN	GMR 42 UFN	FMR 42 UFN	500	4"	2"	140	88	N		5/8"	1/2"	62
R 42 UFK	GMR 42 UFK	FMR 42 UFK						K		K15		
R 52 UFN	GMR 52 UFN	FMR 52 UFN	600	5"	2"	164	110	N		5/8"		
R 52 UFK	GMR 52 UFK	FMR 52 UFK						K		K15		
R 62 UFN	GMR 62 UFN	FMR 62 UFN	600	6"	2"	194	133	N		5/8"		
R 62 UFK	GMR 62 UFK	FMR 62 UFK						K		K15		
R 82 UFK	GMR 82 UFK	FMR 82 UFK	700	8"	2"	234	173	K		K20	5/8"	
R 102 UFK	GMR 102 UFK	FMR 102 UFK	700	10"	2"	288	189	K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



PLACA OPCIONAL

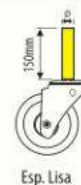


OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

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



TIPOS DE MANCAIS



SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



POLIURETANO - MOLDADO - ROUND

Dureza: 60 shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 52 UFKRV	GMR 52 UFKRV	FMR 52 UFKRV	600	5"	2"	164	110	K		K15	1/2"	62
R 62 UFKRV	GMR 62 UFKRV	FMR 62 UFKRV	600	6"	2"	194	133	K		K15		
R 82 UFKRV	GMR 82 UFKRV	FMR 82 UFKRV	700	8"	2"	234	173	K		K20	5/8"	62
R 102 UFKRV	GMR 102 UFKRV	FMR 102 UFKRV	700	10"	2"	288	189	K		K20		



POLIURETANO - MOLDADO - ROUND

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 52 UFKRA	GMR 52 UFKRA	FMR 52 UFKRA	600	5"	2"	164	110	K		K15	1/2"	62
R 62 UFKRA	GMR 62 UFKRA	FMR 62 UFKRA	600	6"	2"	194	133	K		K15		
R 82 UFKRA	GMR 82 UFKRA	FMR 82 UFKRA	700	8"	2"	234	173	K		K20	5/8"	62
R 102 UFKRA	GMR 102 UFKRA	FMR 102 UFKRA	700	10"	2"	288	189	K		K20		



POLIURETANO ALTA PERFORMANCE BORDÔ

Dureza: 95 shore A - Temperatura de -40° C a 100° C

REFERÊNCIA	IR		kg	in	in	mm	mm	mancal			in	mm
R 42 UFHK	GMR 42 UFHK	FMR 42 UFHK	500	4"	2"	140	88	K		K15	1/2"	62
R 52 UFHK	GMR 52 UFHK	FMR 52 UFHK	600	5"	2"	164	110	K		K15		
R 62 UFHK	GMR 62 UFHK	FMR 62 UFHK	600	6"	2"	194	133	K		K15	5/8"	62
R 82 UFHK	GMR 82 UFHK	FMR 82 UFHK	700	8"	2"	234	173	K		K20		
R 102 UFHK	GMR 102 UFHK	FMR 102 UFHK	700	10"	2"	288	189	K		K20		



BORRACHA COM DUPLA CAMADA - AZUL, CINZA OU PRETO

Dureza 65 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	IR		kg	in	in	mm	mm	mancal			in	mm
R 52 2BFK	GMR 52 2BFK	FMR 52 2BFK	250	5"	2"	164	107	K		K15	1/2"	62
R 62 2BFK	GMR 62 2BFK	FMR 62 2BFK	300	6"	2"	194	122	K		K15		
R 82 2BFK	GMR 82 2BFK	FMR 82 2BFK	350	8"	2"	234	154	K		K20	5/8"	62
R 102 2BFK	GMR 102 2BFK	FMR 102 2BFK	450	10"	2"	288	186	K		K20		

ACESSÓRIOS

PLACA UNIVERSAL	PLACA OPCIONAL	OPÇÃO DE FREIO	FIXAÇÃO POR ESPIGA	TIPOS DE MANCAIS				
		<p>Freio "OP"</p>	<table border="1"> <tr> <td>Ø 31,75 mm x 150 mm</td> <td>Lisa</td> </tr> <tr> <td>Ø 33,5 mm x 150 mm</td> <td>Lisa</td> </tr> </table> <p>Esp. Lisa</p>	Ø 31,75 mm x 150 mm	Lisa	Ø 33,5 mm x 150 mm	Lisa	
Ø 31,75 mm x 150 mm	Lisa							
Ø 33,5 mm x 150 mm	Lisa							

SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



POLIURETANO COM DUPLA CAMADA - MOLDADO - ALUMÍNIO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in	in	mm	mm	mancal			in	mm
R 52 UAK	GMR 52 UAK	FMR 52 UAK	400	5"	2"	164	110	K		K15	1/2"	62
R 62 UAK	GMR 62 UAK	FMR 62 UAK	450	6"	2"	194	133	K		K15		
R 82 UAK	GMR 82 UAK	FMR 82 UAK	500	8"	2"	234	173	K		K20	5/8"	



CELERON

Dureza Brinell: 25 HB - Temperatura de -30 a 120° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 CL	GMR 52 CL	FMR 52 CL	500	5" 125mm	2"	164	110	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	6" 150mm	2"	194	133	L		5/8"	1/2"	62
R 62 CK	GMR 62 CK	FMR 62 CK						K		K15		
R 82 CL	GMR 82 CL	FMR 82 CL	700	8" 200mm	2"	237	173	L		7/8"	5/8"	
R 82 CK	GMR 82 CK	FMR 82 CK						K		K20		



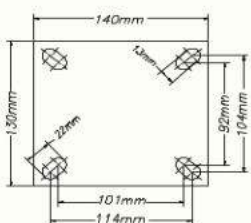
NYLON COM FIBRA DE VIDRO

Dureza: 75 shore D - Temperatura de -40° C a 180° C

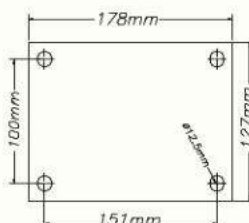
REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NNVN	GMR 52 NNVN	FMR 52 NNVN	500	5" 125mm	2"	166	110	N		5/8"	1/2"	62
R 52 NNVK	GMR 52 NNVK	FMR 52 NNVK						K		K15		
R 62 NNVN	GMR 62 NNVN	FMR 62 NNVN	600	6" 150mm	2"	196	133	N		5/8"	1/2"	62
R 62 NNVK	GMR 62 NNVK	FMR 62 NNVK						K		K15		
R 82 NNVN	GMR 82 NNVN	FMR 82 NNVN	700	8" 200mm	2"	237	173	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	10" 250mm	2"	291	189	N		7/8"	5/8"	
R 102 NNVK	GMR 102 NNVK	FMR 102 NNVK						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



PLACA OPCIONAL

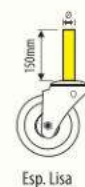


OPÇÃO DE FREIO



FIXAÇÃO POR ESPIGA

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



TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 2 - LINHA MR - CARGAS DE ATÉ 700 kg



RODÍZIO PARA ANDAIME

- ✓ 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



REFERÊNCIA	GMRELOT	kg	in/mm	in	mm	mm	mancal			in	mm
R 52 BFN	GMRELOT 52 BFN	250	5" 125mm	2"	164	110	N	—	5/8"	1/2"	62
R 52 BFK	GMRELOT 52 BFK						K	☺☺	K15		
R 52 NNN	GMRELOT 52 NNN	500	5" 125mm	2"	166	110	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	5" 125mm	2"	164	110	N	—	5/8"	1/2"	62
R 52 UFK	GMRELOT 52 UFK						K	☺☺	K15		
R 62 BFN	GMRELOT 62 BFN	300	6" 150mm	2"	194	133	N	—	5/8"	1/2"	62
R 62 BFK	GMRELOT 62 BFK						K	☺☺	K15		
R 62 UNNM	GMRELOT 62 UNNM	550	6" 150mm	2"	194	133	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	6" 150mm	2"	196	133	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	6" 150mm	2"	194	133	N	—	5/8"	1/2"	62
R 62 UFK	GMRELOT 62 UFK						K	☺☺	K15		
R 82 BFK	GMRELOT 82 BFK	350	8" 200mm	2"	234	173	K	☺☺	K20	5/8"	62
R 82 UFK	GMRELOT 82 UFK	700	8" 200mm	2"	234	173	K	☺☺	K20	5/8"	62

ACESSÓRIOS

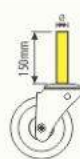
OPÇÃO DE FREIO



Freio "OT"

FIXAÇÃO POR ESPIGA

Padrão	Ø 33,5 mm x 150 mm	Lisa
Opcional	Ø 31,75 mm x 150 mm	Lisa



Esp. Lisa

TIPOS DE MANCAIS



Bucha de Nylon Grafitado



Rolamento de Roletes



Rolamento de esferas blindado

SÉRIE 2 - LINHA MR - INOX - CARGAS DE ATÉ 490 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	MRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 BPN	GMRX 52 BPN	FMRX 52 BPN	140	5" 125mm	2"	166	110	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	6" 150mm	2"	196	133	N		5/8"		
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	8" 200mm	2"	237	173	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	10" 250mm	2"	291	189	N		7/8"		
R 102 BPL	GMRX 102 BPL	FMRX 102 BPL						L		7/8"		
R 102 BPK	GMRX 102 BPK	FMRX 102 BPK						K		K20		

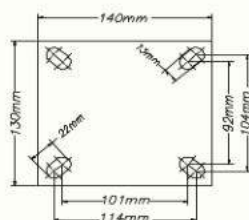


NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	MRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 NN	GMRX 42 NN	FMRX 42 NN	210	4" 100mm	2"	140	88	N		5/8"	1/2"	62
R 42 NL	GMRX 42 NL	FMRX 42 NL						L		5/8"		
R 42 NK	GMRX 42 NK	FMRX 42 NK						K		K15		
R 52 NNN	GMRX 52 NNN	FMRX 52 NNN	350	5" 125mm	2"	166	110	N		5/8"		
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	6" 150mm	2"	196	133	N		5/8"	5/8"	
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	8" 200mm	2"	237	173	N		7/8"		
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	10" 250mm	2"	291	189	N		7/8"		
R 102>NNL	GMRX 102>NNL	FMRX 102>NNL						L		7/8"		
R 102>NNK	GMRX 102>NNK	FMRX 102>NNK						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



OPÇÃO DE FREIO



TIPOS DE MANCAIS



SÉRIE 2 - LINHA MR - INOX - CARGAS DE ATÉ 490 kg

INOX
AÇO INOXIDÁVEL 304



BORRACHA INJETADA - INOX
Dureza 90 Shore A - Temperatura de -10° C a 70° C

REFERÊNCIA	MRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 BPN	GMRX 52 BPN	FMRX 52 BPN	140	5" 125mm	2"	166	110	N		5/8"	1/2"	62
R 52 BPLX	GMRX 52 BPLX	FMRX 52 BPLX						L		5/8"		
R 52 BPK	GMRX 52 BPK	FMRX 52 BPK						K		K15		
R 62 BPN	GMRX 62 BPN	FMRX 62 BPN	175	6" 150mm	2"	196	133	N		5/8"	1/2"	62
R 62 BPLX	GMRX 62 BPLX	FMRX 62 BPLX						L		5/8"		
R 62 BPK	GMRX 62 BPK	FMRX 62 BPK						K		K15		
R 82 BPN	GMRX 82 BPN	FMRX 82 BPN	210	8" 200mm	2"	237	173	N		7/8"	5/8"	62
R 82 BPLX	GMRX 82 BPLX	FMRX 82 BPLX						L		7/8"		
R 82 BPK	GMRX 82 BPK	FMRX 82 BPK						K		K20		
R 102 BPN	GMRX 102 BPN	FMRX 102 BPN	245	10" 250mm	2"	291	189	N		7/8"	5/8"	62
R 102 BPLX	GMRX 102 BPLX	FMRX 102 BPLX						L		7/8"		
R 102 BPK	GMRX 102 BPK	FMRX 102 BPK						K		K20		

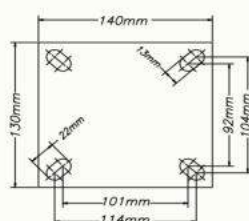


NYLON INJETADO - INOX
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	MRX		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 NN	GMRX 42 NN	FMRX 42 NN	210	4" 100mm	2"	140	88	N		5/8"	1/2"	62
R 42 NLX	GMRX 42 NLX	FMRX 42 NLX						L		5/8"		
R 42 NK	GMRX 42 NK	FMRX 42 NK						K		K15		
R 52 NNN	GMRX 52 NNN	FMRX 52 NNN	350	5" 125mm	2"	166	110	N		5/8"	1/2"	62
R 52 NNLX	GMRX 52 NNLX	FMRX 52 NNLX						L		5/8"		
R 52 NNK	GMRX 52 NNK	FMRX 52 NNK						K		K15		
R 62 NNN	GMRX 62 NNN	FMRX 62 NNN	420	6" 150mm	2"	196	133	N		5/8"	1/2"	62
R 62 NNLX	GMRX 62 NNLX	FMRX 62 NNLX						L		5/8"		
R 62 NNK	GMRX 62 NNK	FMRX 62 NNK						K		K15		
R 82 NNN	GMRX 82 NNN	FMRX 82 NNN	490	8" 200mm	2"	237	173	N		7/8"	5/8"	62
R 82 NNLX	GMRX 82 NNLX	FMRX 82 NNLX						L		7/8"		
R 82 NNK	GMRX 82 NNK	FMRX 82 NNK						K		K20		
R 102 NNN	GMRX 102 NNN	FMRX 102 NNN	490	10" 250mm	2"	291	189	N		7/8"	5/8"	62
R 102 NNLX	GMRX 102 NNLX	FMRX 102 NNLX						L		7/8"		
R 102 NNK	GMRX 102 NNK	FMRX 102 NNK						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



OPÇÃO DE FREIO



TIPOS DE MANCAIS



SÉRIE 2 - LINHA MR - INOX - CARGAS DE ATÉ 490 kg

INOX
AÇO INOXIDÁVEL 304



POLIURETANO - MOLDADO - NYLON

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UNNM	GMRX 52 UNNM	FMRX 52 UNNM	350	5" 125mm	2"	164	110	N		5/8"	1/2"	62
R 52 UNLXM	GMRX 52 UNLXM	FMRX 52 UNLXM						L		5/8"		
R 52 UNK	GMRX 52 UNK	FMRX 52 UNK						K		K15		
R 62 UNNM	GMRX 62 UNNM	FMRX 62 UNNM	420	6" 150mm	2"	194	133	N		5/8"	5/8"	62
R 62 UNLXM	GMRX 62 UNLXM	FMRX 62 UNLXM						L		5/8"		
R 62 UNK	GMRX 62 UNK	FMRX 62 UNK						K		K15		
R 82 UNNM	GMRX 82 UNNM	FMRX 82 UNNM	490	8" 200mm	2"	234	173	N		7/8"	5/8"	62
R 82 UNLXM	GMRX 82 UNLXM	FMRX 82 UNLXM						L		7/8"		
R 82 UNK	GMRX 82 UNK	FMRX 82 UNK						K		K20		
R 102 UNNM	GMRX 102 UNNM	FMRX 102 UNNM	490	10" 250mm	2"	288	189	N		7/8"	5/8"	62
R 102 UNLXM	GMRX 102 UNLXM	FMRX 102 UNLXM						L		7/8"		
R 102 UNK	GMRX 102 UNK	FMRX 102 UNK						K		K20		



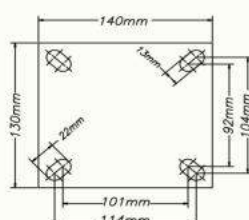
NYLON COM FIBRA DE VIDRO

Dureza: 75 shore D - Temperatura de -40° C a 180° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NNVN	GMRX 52 NNVN	FMRX 52 NNVN	350	5" 125mm	2"	166	110	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	6" 150mm	2"	196	133	N		5/8"	5/8"	62
R 62 NNVK	GMRX 62 NNVK	FMRX 62 NNVK						K		K15		
R 82 NNVN	GMRX 82 NNVN	FMRX 82 NNVN	490	8" 200mm	2"	237	173	N		7/8"	5/8"	62
R 82 NNVK	GMRX 82 NNVK	FMRX 82 NNVK						K		K20		
R 102 NNVN	GMRX 102 NNVN	FMRX 102 NNVN	490	10" 250mm	2"	291	189	N		7/8"	5/8"	62
R 102 NNVK	GMRX 102 NNVK	FMRX 102 NNVK						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



OPÇÃO DE FREIO



TIPOS DE MANCAIS



SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 800 kg



NYLON - INJETADO
Dureza 75 Shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NPN	GMRA 52 NPN	FMRA 52 NPN	350	5" 125mm	2"	186	109	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	6" 150mm	2"	209	128	N	■	5/8"	5/8"	62
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	8" 200mm	2"	257	166	N	■	7/8"	5/8"	62
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	10" 250mm	2"	308	195	N	■	7/8"	5/8"	62
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
Dureza 75 Shore D - Temperatura de -40° C a 110° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 NN	GMRA 42 NN	FMRA 42 NN	400	4" 100mm	2"	159	89	N	■	5/8"	1/2"	62
R 42 NL	GMRA 42 NL	FMRA 42 NL						L	≡	5/8"		
R 42 NK	GMRA 42 NK	FMRA 42 NK						K	⊞	K15		
R 52 NNN	GMRA 52 NNN	FMRA 52 NNN	500	5" 125mm	2"	186	109	N	■	5/8"	5/8"	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	6" 150mm	2"	209	128	N	■	5/8"	5/8"	62
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	8" 200mm	2"	257	166	N	■	7/8"	5/8"	62
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	10" 250mm	2"	308	195	N	■	7/8"	5/8"	62
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	OPÇÃO DE FREIO	TRAVA	TIPOS DE MANCAIS
		<p>Freio "OP"</p>	<p>Trava Direcional "TD"</p>	<ul style="list-style-type: none"> Bucha de Nylon Grafitado Rolamento de Roletes Rolamento de esferas blindado

SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 700 kg



POLIPROPILENO - INJETADO
Dureza 75 Shore D - Temperatura de -20 a 70° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 PPN	GMRA 52 PPN	FMRA 52 PPN	325	5" 125mm	2"	186	109	N		5/8"	1/2"	62
R 52 PPL	GMRA 52 PPL	FMRA 52 PPL						L		5/8"		
R 52 PPK	GMRA 52 PPK	FMRA 52 PPK						K		K15		
R 62 PPN	GMRA 62 PPN	FMRA 62 PPN	350	6" 150mm	2"	209	128	N		5/8"	1/2"	62
R 62 PPL	GMRA 62 PPL	FMRA 62 PPL						L		5/8"		
R 62 PPK	GMRA 62 PPK	FMRA 62 PPK						K		K15		

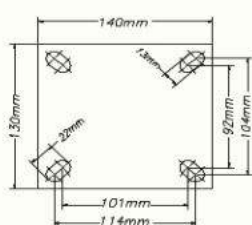


POLIURETANO - MOLDADO - NYLON
Dureza: 90 shore A - Temperatura de -20° C a 70° C

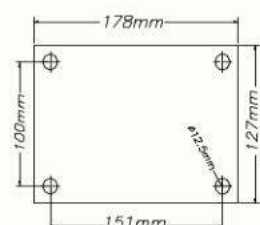
REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UNNM	GMRA 52 UNNM	FMRA 52 UNNM	475	5" 125mm	2"	183	109	N		5/8"	1/2"	62
R 52 UNLM	GMRA 52 UNLM	FMRA 52 UNLM						L		5/8"		
R 52 UNKM	GMRA 52 UNKM	FMRA 52 UNKM						K		K15		
R 62 UNNM	GMRA 62 UNNM	FMRA 62 UNNM	550	6" 150mm	2"	206	128	N		5/8"	1/2"	62
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	8" 200mm	2"	253	166	N		7/8"	5/8"	62
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	10" 250mm	2"	306	195	N		7/8"	5/8"	62
R 102 UNLM	GMRA 102 UNLM	FMRA 102 UNLM						L		7/8"		
R 102 UNKM	GMRA 102 UNKM	FMRA 102 UNKM						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



PLACA OPCIONAL



OPÇÃO DE FREIO



Freio "OP"

TRAVA



Trava Direcional "TD"

TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 900 kg



FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de - 40 a 110° C

REFERÊNCIA	MRA		kg	in	in	mm	mm	mancal			in	mm
R 52 FN	GMRA 52 FN	FMRA 52 FN	600	5"	2"	183	109	N		5/8"	1/2"	62
R 62 FN	GMRA 62 FN	FMRA 62 FN	700	6"	2"	206	128	N		5/8"		

Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

R 52 FK	GMRA 52 FK	FMRA 52 FK	600	5"	2"	183	109	K		K15	1/2"	62
R 62 FK	GMRA 62 FK	FMRA 62 FK	700	6"	2"	206	128	K		K15		
R 82 FK	GMRA 82 FK	FMRA 82 FK	900	8"	2"	253	166	K		K20	5/8"	
R 102 FK	GMRA 102 FK	FMRA 102 FK	900	10"	2"	306	195	K		K20		



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 BFN	GMRA 52 BFN	FMRA 52 BFN	250	5" 125mm	2"	186	109	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	6" 150mm	2"	206	128	N		5/8"	5/8"	
R 62 BFK	GMRA 62 BFK	FMRA 62 BFK						K		K15		
R 82 BFK	GMRA 82 BFK	FMRA 82 BFK	350	8" 200mm	2"	253	166	K		K20	5/8"	
R 102 BFK	GMRA 102 BFK	FMRA 102 BFK	450	10" 250mm	2"	306	195	K		K20		



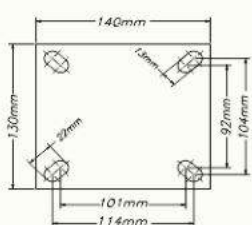
POLIURETANO - MOLDADO

Dureza: 60 shore D - Temperatura de -20° C a 70° C

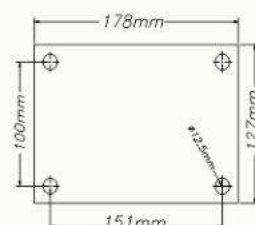
REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 UFK	GMRA 42 UFK	FMRA 42 UFK	500	4" 100mm	2"	159	89	K		5/8"	1/2"	62
R 52 UFK	GMRA 52 UFK	FMRA 52 UFK	600	5" 125mm	2"	183	109	K		5/8"		
R 62 UFK	GMRA 62 UFK	FMRA 62 UFK	700	6" 150mm	2"	206	128	K		5/8"	5/8"	
R 82 UFK	GMRA 82 UFK	FMRA 82 UFK	900	8" 200mm	2"	253	166	K		K20		
R 102 UFK	GMRA 102 UFK	FMRA 102 UFK	900	10" 250mm	2"	306	195	K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



PLACA OPCIONAL



OPÇÃO DE FREIO



TRAVA



TIPOS DE MANCAIS



SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 900 kg



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 UFN	GMRA 42 UFN	FMRA 42 UFN	500	4" 100mm	2"	159	89	N		5/8"	1/2"	62
R 42 UFK	GMRA 42 UFK	FMRA 42 UFK						K		K15		
R 52 UFN	GMRA 52 UFN	FMRA 52 UFN	600	5" 125mm	2"	183	109	N		5/8"		
R 52 UFK	GMRA 52 UFK	FMRA 52 UFK						K		K15		
R 62 UFN	GMRA 62 UFN	FMRA 62 UFN	700	6" 150mm	2"	206	128	N		5/8"		
R 62 UFK	GMRA 62 UFK	FMRA 62 UFK						K		K15		
R 82 UFK	GMRA 82 UFK	FMRA 82 UFK	900	8" 200mm	2"	253	166	K		K20	5/8"	
R 102 UFK	GMRA 102 UFK	FMRA 102 UFK						K		K20		



POLIURETANO - MOLDADO - ROUND

Dureza: 60 shore D - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UFKRV	GMRA 52 UFKRV	FMRA 52 UFKRV	600	5" 125mm	2"	183	109	K		K15	1/2"	62
R 62 UFKRV	GMRA 62 UFKRV	FMRA 62 UFKRV						K		K15		
R 82 UFKRV	GMRA 82 UFKRV	FMRA 82 UFKRV	900	8" 200mm	2"	253	166	K		K20	5/8"	
R 102 UFKRV	GMRA 102 UFKRV	FMRA 102 UFKRV						K		K20		



POLIURETANO - MOLDADO - ROUND

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UFKRA	GMRA 52 UFKRA	FMRA 52 UFKRA	600	5" 125mm	2"	183	109	K		K15	1/2"	62
R 62 UFKRA	GMRA 62 UFKRA	FMRA 62 UFKRA						K		K15		
R 82 UFKRA	GMRA 82 UFKRA	FMRA 82 UFKRA	900	8" 200mm	2"	253	166	K		K20	5/8"	
R 102 UFKRA	GMRA 102 UFKRA	FMRA 102 UFKRA						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL	PLACA OPCIONAL	OPÇÃO DE FREIO	TRAVA	TIPOS DE MANCAIS
		<p>Freio "OP"</p>	<p>Trava Direcional "TD"</p>	Bucha de Nylon Grafitado Rolamento de esferas blindado

SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 900 kg



POLIURETANO COM DUPLA CAMADA - MOLDADO - ALUMÍNIO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 UAK	GMRA 52 UAK	FMRA 52 UAK	600	5" 125mm	2"	183	109	K		K15	1/2"	62
R 62 UAK	GMRA 62 UAK	FMRA 62 UAK	700	6" 150mm	2"	206	128	K		K15		
R 82 UAK	GMRA 82 UAK	FMRA 82 UAK	900	8" 200mm	2"	253	166	K		K20		



POLIURETANO ALTA PERFORMANCE BORDÔ

Dureza: 95 shore A - Temperatura de -40° C a 100° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 42 UFHK	GMRA 42 UFHK	FMRA 42 UFHK	500	4" 100mm	2"	159	89	N		K15	1/2"	62
R 52 UFHK	GMRA 52 UFHK	FMRA 52 UFHK	600	5" 125mm	2"	183	109	K		K15		
R 62 UFHK	GMRA 62 UFHK	FMRA 62 UFHK	700	6" 150mm	2"	206	128	K		K15		
R 82 UFHK	GMRA 82 UFHK	FMRA 82 UFHK	900	8" 200mm	2"	253	166	K		K20	5/8"	
R 102 UFHK	GMRA 102 UFHK	FMRA 102 UFHK	900	10" 250mm	2"	306	195	K		K20		



BORRACHA COM DUPLA CAMADA - AZUL, CINZA OU PRETO

Dureza 65 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 2BFK	GMRA 52 2BFK	FMRA 52 2BFK	250	5" 125mm	2"	186	109	K		K15	1/2"	62
R 62 2BFK	GMRA 62 2BFK	FMRA 62 2BFK	300	6" 150mm	2"	206	128	K		K15		
R 82 2BFK	GMRA 82 2BFK	FMRA 82 2BFK	350	8" 200mm	2"	253	166	K		K20		
R 102 2BFK	GMRA 102 2BFK	FMRA 102 2BFK	450	10" 250mm	2"	306	195	K		K20	5/8"	

ACESSÓRIOS

PLACA UNIVERSAL	PLACA OPCIONAL	OPÇÃO DE FREIO	TRAVA	TIPOS DE MANCAIS
		<p>Freio "OP"</p>	<p>Trava Direcional "TD"</p>	<p>Rolamento de esferas blindado</p>

SÉRIE 2 - LINHA MRA - CARGAS DE ATÉ 800 kg



CELERON

Dureza Brinell: 25 HB - Temperatura de - 30 a 120° C

REFERÊNCIA	MRA		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 CL	GMRA 52 CL	FMRA 52 CL	500	5" 125mm	2"	186	109	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	6" 150mm	2"	206	128	L		5/8"		
R 62 CK	GMRA 62 CK	FMRA 62 CK						K		K15		
R 82 CL	GMRA 82 CL	FMRA 82 CL	800	8" 200mm	2"	257	166	L		7/8"	5/8"	
R 82 CK	GMRA 82 CK	FMRA 82 CK						K		K20		



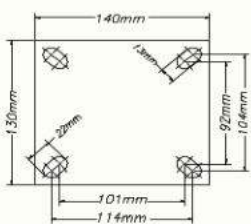
NYLON COM FIBRA DE VIDRO

Dureza: 75 shore D - Temperatura de -40° C a 180° C

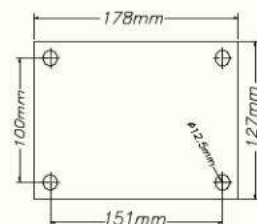
REFERÊNCIA	MR		kg	in/mm	in	mm	mm	mancal			in	mm
R 52 NNVN	GMRA 52 NNVN	FMRA 52 NNVN	500	5" 125mm	2"	186	109	N		5/8"	1/2"	62
R 52 NNVK	GMRA 52 NNVK	FMRA 52 NNVK						K		K15		
R 62 NNVN	GMRA 62 NNVN	FMRA 62 NNVN	600	6" 150mm	2"	209	128	N		5/8"		
R 62 NNVK	GMRA 62 NNVK	FMRA 62 NNVK						K		K15		
R 82 NNVN	GMRA 82 NNVN	FMRA 82 NNVN	800	8" 200mm	2"	257	166	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	10" 250mm	2"	308	195	N		7/8"		
R 102 NNVK	GMRA 102 NNVK	FMRA 102 NNVK						K		K20		

ACESSÓRIOS

PLACA UNIVERSAL



PLACA OPCIONAL



OPÇÃO DE FREIO



Freio "OP"

TRAVA



Trava Direcional "TD"

TIPOS DE MANCAIS

- Bucha de Nylon Grafitado
- Rolamento de Roletes
- Rolamento de esferas blindado

SÉRIE 3 - LINHA MPA - CARGAS DE ATÉ 1400 kg



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MPA		kg	in/mm	in	mm	mm	mancal	in	mm
R 63 BFK	GMPA 63 BFK	FMPA 63 BFK	400	6" 150mm	3"	220	133	K	3/4"	78
R 83 BFK	GMPA 83 BFK	FMPA 83 BFK	500	8" 200mm	3"	264	169	K		
R 103 BFK	GMPA 103 BFK	FMPA 103 BFK	600	10" 250mm	3"	322	202	K		
R 123 BFK	GMPA 123 BFK	FMPA 123 BFK	750	12" 300mm	3"	370	230	K		



BORRACHA - MOLDADA - PARA CONTAINER DE LIXO

Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MPAL		kg	in/mm	in	mm	mm	mancal	in	mm	
R 63 BFX	GMPAL 63 BFX		400	6" 150mm	3"	220	133		1"	3/4"	78



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	MPA		kg	in/mm	in	mm	mm	mancal	in	mm
R 63 UFK	GMPA 63 UFK	FMPA 63 UFK	1000	6" 150mm	3"	220	133	K	3/4"	78
R 83 UFK	GMPA 83 UFK	FMPA 83 UFK	1200	8" 200mm	3"	264	169	K		
R 103 UFK	GMPA 103 UFK	FMPA 103 UFK	1300	10" 250mm	3"	322	202	K		
R 123 UFK	GMPA 123 UFK	FMPA 123 UFK	1400	12" 300mm	3"	370	230	K		

ACESSÓRIOS

PLACA	OPÇÃO DE FREIO	TRAVA	TIPOS DE MANCAIS
	<p>Freio "OP"</p>	<p>Trava Direcional "TD"</p>	<p>Rolamento de esferas blindado</p>

SÉRIE 3 - LINHA MPA - CARGAS DE ATÉ 1400 kg



CELERON

Dureza Brinell: 25 HB - Temperatura de - 30 a 120° C

REFERÊNCIA	MPA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 CL	GMPA 63 CL	FMPA 63 CL	800	6" 150mm	3"	220	133	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	8" 200mm	3"	264	169	L	≡	1"		
R 83 CK	GMPA 83 CK	FMPA 83 CK						K	≡	K25		



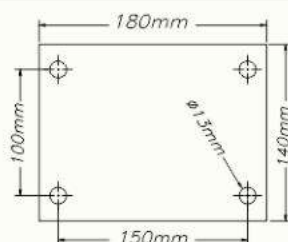
FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

REFERÊNCIA	MPA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 FK	GMPA 63 FK	FMPA 63 FK	1000	6" 150mm	3"	220	133	K	≡	K25	3/4"	78
R 83 FK	GMPA 83 FK	FMPA 83 FK	1200	8" 200mm	3"	264	169	K	≡	K25		
R 103 FK	GMPA 103 FK	FMPA 103 FK	1300	10" 250mm	3"	322	202	K	≡	K25		
R 123 FK	GMPA 123 FK	FMPA 123 FK	1400	12" 300mm	3"	370	230	K	≡	K25		

ACESSÓRIOS

PLACA



OPÇÃO DE FREIO



TRAVA



TIPOS DE MANCAIS



SÉRIE 3,4 e 5 - LINHA PA - CARGAS DE ATÉ 2800 kg



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

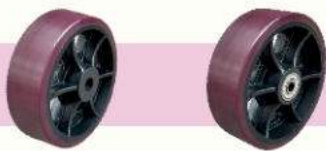
REFERÊNCIA	PA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 BFK	GPA 63 BFK	FPA 63 BFK	400	6" 150mm	3"	230	131	K		K25	3/4"	78
R 83 BFK	GPA 83 BFK	FPA 83 BFK	500	8" 200mm	3"	275	169	K		K25		
R 103 BFK	GPA 103 BFK	FPA 103 BFK	600	10" 250mm	3"	325	195	K		K25		
R 123 BFK	GPA 123 BFK	FPA 123 BFK	750	12" 300mm	3"	380	230	K		K25		
R 104 BFK	GPA 104 BFK	FPA 104 BFK	800	10" 250mm	4"	325	195	K		K30	110	110
R 124 BFK	GPA 124 BFK	FPA 124 BFK	1000	12" 300mm	4"	380	230	K		K30		



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	PA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 UFK	GPA 63 UFK	FPA 63 UFK	1000	6" 150mm	3"	230	131	K		K25	3/4"	78
R 83 UFK	GPA 83 UFK	FPA 83 UFK	1200	8" 200mm	3"	275	169	K		K25		
R 103 UFK	GPA 103 UFK	FPA 103 UFK	1300	10" 250mm	3"	325	195	K		K25		
R 123 UFK	GPA 123 UFK	FPA 123 UFK	1400	12" 300mm	3"	380	230	K		K25		
R 104 UFK	GPA 104 UFK	FPA 104 UFK	1600	10" 250mm	4"	325	195	K		K30	110	110
R 124 UFK	GPA 124 UFK	FPA 124 UFK	1800	12" 300mm	4"	380	230	K		K30		



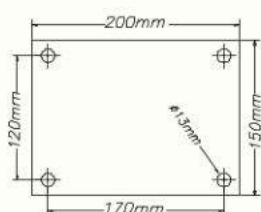
POLIURETANO ALTA PERFORMANCE BORDÔ

Dureza: 95 shore A - Temperatura de -40° C a 100° C

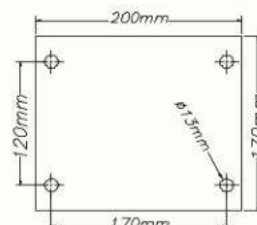
REFERÊNCIA	kg	in/mm	in/mm	mancal	in	mm
R 165 UFH	2800	16" 410mm	5" 124mm		Consulta	134
R 165 UFHK	2800	16" 410mm	5" 124mm	K	Consulta	

ACESSÓRIOS

PLACA P/ RODAS TIPO 63 / 83 / 103 / 123 E OPÇÃO DE FREIO



PLACA P/ RODAS TIPO 104 / 124 E OPÇÃO DE FREIO



TRAVA



TIPOS DE MANCAIS



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



CELERON

Dureza Brinell: 25 HB - Temperatura de - 30 a 120° C



REFERÊNCIA	PA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 CL	GPA 63 CL	FPA 63 CL	800	6" 150mm	3"	230	131	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	8" 200mm	3"	275	169	L		1"		
R 83 CK	GPA 83 CK	FPA 83 CK						K		K25		
R 124 CK	GPA 124 CK	FPA 124 CK	1700	12" 300mm	4"	380	230	K		K30		110



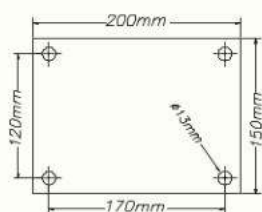
FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

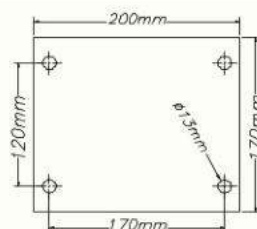
REFERÊNCIA	PA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 FK	GPA 63 FK	FPA 63 FK	1000	6" 150mm	3"	230	131	K		K25	3/4"	78
R 83 FK	GPA 83 FK	FPA 83 FK	1200	8" 200mm	3"	275	169	K		K25		
R 103 FK	GPA 103 FK	FPA 103 FK	1300	10" 250mm	3"	325	195	K		K25		
R 123 FK	GPA 123 FK	FPA 123 FK	1400	12" 300mm	3"	380	230	K		K25		
R 104 FK	GPA 104 FK	FPA 104 FK	1600	10" 250mm	4"	325	195	K		K30		110

ACESSÓRIOS

PLACA P/ RODAS TIPO 63 / 83 / 103 / 123 E OPÇÃO DE FREIO



PLACA P/ RODAS TIPO 104 / 124 E OPÇÃO DE FREIO



TRAVA



TIPOS DE MANCAIS



SÉRIE 3 - LINHA DPA - CARGAS DE ATÉ 2800 kg



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	DPA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 BFK	GDPA 63 BFK	FDPA 63 BFK	800	6" 150mm	3"	230	131	K		K25	3/4"	156
R 83 BFK	GDPA 83 BFK	FDPA 83 BFK	1000	8" 200mm		275	169	K		K25		
R 103 BFK	GDPA 103 BFK	FDPA 103 BFK	1200	10" 250mm		325	195	K		K25		
R 123 BFK	GDPA 123 BFK	FDPA 123 BFK	1500	12" 300mm		375	287	K		K25		



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	DPA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 UFK	GDPA 63 UFK	FDPA 63 UFK	2000	6" 150mm	3"	230	131	K		K25	3/4"	156
R 83 UFK	GDPA 83 UFK	FDPA 83 UFK	2400	8" 200mm		275	169	K		K25		
R 103 UFK	GDPA 103 UFK	FDPA 103 UFK	2600	10" 250mm		325	195	K		K25		
R 123 UFK	GDPA 123 UFK	FDPA 123 UFK	2800	12" 300mm		375	287	K		K25		



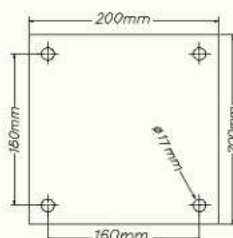
FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de -40 a 400° C

REFERÊNCIA	DPA		kg	in/mm	in	mm	mm	mancal			in	mm
R 63 FK	GDPA 63 FK	FDPA 63 FK	2000	6" 150mm	3"	230	131	K		K25	3/4"	156
R 83 FK	GDPA 83 FK	FDPA 83 FK	2400	8" 200mm		275	169	K		K25		
R 103 FK	GDPA 103 FK	FDPA 103 FK	2600	10" 250mm		325	195	K		K25		
R 123 FK	GDPA 123 FK	FDPA 123 FK	2800	12" 300mm		375	287	K		K25		

PLACA / MANCAL

PLACA



TIPOS DE MANCAIS



Rolamento de esferas blindado

SÉRIE 2, 3 e 4 - LINHA PAM - CARGAS DE ATÉ 750 kg



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	PAM		kg CARGA DA MOLLA	in/mm	in	mm	mm	mancal			in	mm
R 62 BFK	GPAM 62 BFK	FPAM 62 BFK	130	6" 150mm	2"	227	133	K		K15	1/2"	62
R 82 BFK	GPAM 82 BFK	FPAM 82 BFK	180	8" 200mm								
R 102 BFK	GPAM 102 BFK	FPAM 102 BFK	250	10" 250mm								
R 63 BFK	GPAM 63 BFK	FPAM 63 BFK	400	6" 150mm	3"	234	149	K		K25	3/4"	78
R 83 BFK	GPAM 83 BFK	FPAM 83 BFK	500	8" 200mm								
R 103 BFK	GPAM 103 BFK	FPAM 103 BFK	500	10" 250mm								
R 104 BFK	GPAM 104 BFK	FPAM 104 BFK	750	10" 250mm	4"	372	226	K		K30	110	
R 124 BFK	GPAM 124 BFK	FPAM 124 BFK	750	12" 300mm								



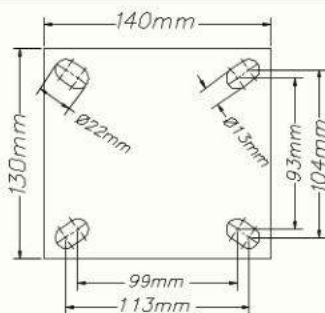
POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

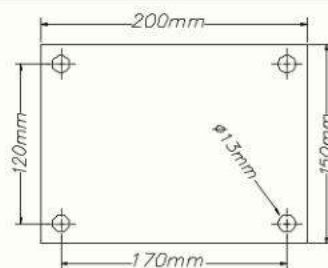
REFERÊNCIA	PAM		kg CARGA DA MOLLA	in/mm	in	mm	mm	mancal			in	mm
R 62 UFK	GPAM 62 UFK	FPAM 62 UFK	130	6" 150mm	2"	225	131	K		K15	1/2"	62
R 82 UFK	GPAM 82 UFK	FPAM 82 UFK	180	8" 200mm								
R 102 UFK	GPAM 102 UFK	FPAM 102 UFK	250	10" 250mm								
R 63 UFK	GPAM 63 UFK	FPAM 63 UFK	400	6" 150mm	3"	232	147	K		K25	3/4"	78
R 83 UFK	GPAM 83 UFK	FPAM 83 UFK	500	8" 200mm								
R 103 UFK	GPAM 103 UFK	FPAM 103 UFK	500	10" 250mm								
R 104 UFK	GPAM 104 UFK	FPAM 104 UFK	750	10" 250mm	4"	370	224	K		K30	110	
R 124 UFK	GPAM 124 UFK	FPAM 124 UFK	750	12" 300mm								

PLACAS / MANCAL

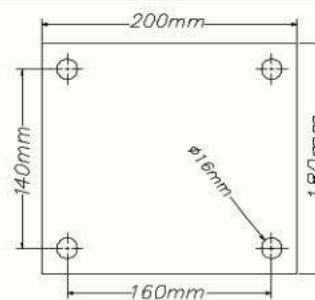
RODAS TIPO 62



RODAS TIPO 82 / 102 / 63 / 83 / 103



RODAS TIPO 104 / 124



TIPOS DE MANCAIS



Rolamento de esferas blindado

SÉRIE 4 - LINHA PAE - CARGAS DE ATÉ 2000 kg



BORRACHA - MOLDADA

Dureza 75 Shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	PAE		kg	in/mm	in	mm	mm	mancal			in	mm
R 104 BFK	GPAE 104 BFK	FPAE 104 BFK	800	10" 250mm	4"	325	195	K		K30	3/4"	110
R 124 BFK	GPAE 124 BFK	FPAE 124 BFK	1000	12" 300mm				K		K30		



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA	PAE		kg	in/mm	in	mm	mm	mancal			in	mm
R 104 UFK	GPAE 104 UFK	FPAE 104 UFK	1800	10" 250mm	4"	335	195	K		K30	3/4"	110
R 124 UFK	GPAE 124 UFK	FPAE 124 UFK	2000	12" 300mm				K		K30		



CELERON

Dureza Brinell: 25 HB - Temperatura de -30 a 120° C

REFERÊNCIA	PAE		kg	in/mm	in	mm	mm	mancal			in	mm
R 124 CK	GPAE 124 CK	FPAE 124 CK	1600	12" 300mm	4"	380	230	K		K30	3/4"	110



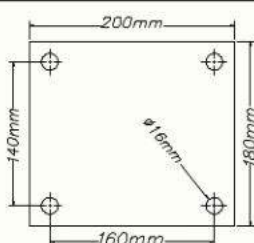
FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de -40 a 400° C

REFERÊNCIA	PAE		kg	in/mm	in	mm	mm	mancal			in	mm
R 104 FK	GPAE 104 FK	FPAE 104 FK	1800	10" 250mm	4"	335	195	K		K30	3/4"	110

PLACA / MANCAL

PLACA



TIPOS DE MANCAIS



SÉRIE 4 - LINHA DPAAE - CARGAS DE ATÉ 3800 kg



POLIURETANO - MOLDADO

Dureza: 90 shore A - Temperatura de -20° C a 70° C

REFERÊNCIA			kg	in/mm	in	mm	mm	mancal			in	mm
	DPAAE											
R 123 UFK	GDPAE 123 UFK	FDPAE 123 UFK	2800	12" 300mm	3"	410	230	K		K25	3/4"	156
R 104 UFK	GDPAE 104 UFK	FDPAE 104 UFK	3400	10" 250mm	4"	385	195	K		K30	1"	220
R 124 UFK	GDPAE 124 UFK	FDPAE 124 UFK	3800	12" 300mm		410	230	K		K30		



FERRO FUNDIDO

Dureza Brinell: 150 HB - Temperatura de - 40 a 400° C

REFERÊNCIA			kg	in/mm	in	mm	mm	mancal			in	mm
	DPAAE											
R 123 FK	GDPAE 123 FK	FDPAE 123 FK	2800	12" 300mm	3"	410	230	K		K25	3/4"	156
R 104 FK	GDPAE 104 FK	FDPAE 104 FK	3400	10" 250mm	4"	385	195	K		K30	1"	220



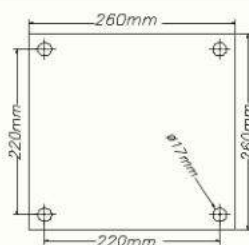
CELERON

Dureza Brinell: 25 HB - Temperatura de - 30 a 120° C

REFERÊNCIA			kg	in/mm	in	mm	mm	mancal			in	mm
	DPAAE											
R 124 CK	GDPAE 124 CK	FDPAE 124 CK	3400	12" 300mm	4"	410	230	K		K30	1"	220

PLACA / MANCAL

PLACA



TIPOS DE MANCAIS



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



PNEUMÁTICA - LINHA IR
Dureza 75 Shore A - Temperatura de - 20° C a 70° C

REFERÊNCIA	IR		kg	mm	mm	mm	mm	mancal			in	mm
R 254 PNN	GIR 254 PNN	FIR 254 PNN	100	212	60	252	165	N		3/4" 7/8"	5/8"	70
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		

REFERÊNCIA	kg	mm	mm	mancal			in	mm
R 354 PNN	150	250	84	N		1"	3/4" 7/8"	72
R 354 PNL				L		1"	7/8"	
R 354 PNLX				L		1"		
R 354 PNK				K		K20	5/8"	



RODA DE PNEU MACIÇO
Dureza 75 Shore A - Temperatura de - 20° C a 70° C

REFERÊNCIA	IR		kg	mm	mm	mm	mm	mancal			in	mm
R 254 PNN - MACIÇO	GIR 254 PNN - MACIÇO	FIR 254 PNN - MACIÇO	100	212	62	252	165	N		3/4" 7/8"	5/8"	75
R 254 PNK - MACIÇO	GIR 254 PNK - MACIÇO	FIR 254 PNK - MACIÇO						K		K20		



PNEUMÁTICA LINHA MPA
Dureza 75 Shore A - Temperatura de - 20° C a 70° C

REFERÊNCIA	MPA		kg	mm	mm	mm	mm	mancal			in	mm
R 358 PNL	GMPA 358 PNL	FMMPA 358 PNL	220	376	85	453	275	L		1"	3/4"	110
R 358 PNK	GMPA 358 PNK	FMMPA 358 PNK						K		K25		

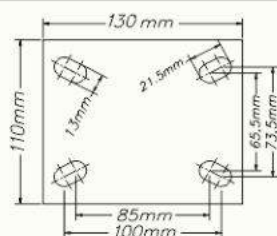


RODA DE PNEU MACIÇO - ESTAMPADA
Dureza 90 Shore A - Temperatura de - 20° C a 70° C

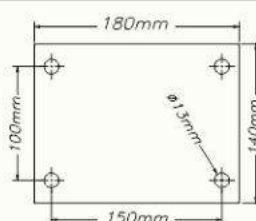
REFERÊNCIA	MPA		kg	mm	mm	mm	mm	mancal			in	mm
R 123 BDL	GMPA 123 BDL	FMMPA 123 BDL	350	320	70	424	230	L		1"	3/4"	78
R 123 BDK	GMPA 123 BDK	FMMPA 123 BDK						K		K25		
R 153 BDL	GMPA 153 BDL	FMMPA 153 BDL	450	350	84	440	280	L		1"	3/4"	110
R 153 BDK	GMPA 153 BDK	FMMPA 153 BDK						K		K25		

PLACAS

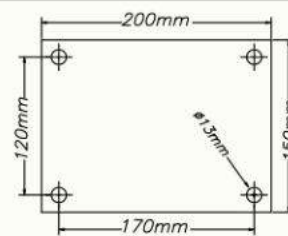
PLACA PARA GIR/FIR 254



PLACA PARA GMPA/FMPA 123



PLACA PARA GMPA/FMPA 358 E 153





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Setembro
2021