

| | | | | |
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| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
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SYSTEM PLAST®

Smart Guide

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GENERAL INDEX

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RegalRexnord™















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LEGEND ICONS

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| ICON | LEGEND |
|---|--|
|  | Link to open menu for technical information related to the products listed on this page. |
| 1 1 0 1 1 a | Link to find related products. |
|  | Link to find related products. Note: only available on our website www.SystemPlastSmartGuide.com |
| 3 0 7 2 0 a | Codes in orange background are indicators for modular belts in molded to width versions. |
|  | Information only available on our website: www.SystemPlastSmartGuide.com |
|  | Link to other varieties of these chains and/or link to the chains used with the sprockets listed on this page. |
|  | Link to other varieties of these modular belts and/or link to the belts used with the sprockets listed on this page. |
|  | Link to the sprockets used with the chains or belts listed on this page. |
| MOQ | Minimum order quantity. |
|  | Indicates chains, belts or curves suitable for magnetic curve systems. |
|  | This product includes patented features. |
|  | Link to general information about the products listed on this page. |
|  | This product is not suitable in use with chains with hold-down tabs. |

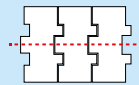
| ICON | LEGEND |
|---|---|
|  | Weight in Kg/m |
|  | Length per standard code. |
|  | Length per standard coil. |
|  | Quantity standard packaging. |
|  | Indication for products that contain a dry lubricant. |
|  | Material: stainless steel AISI 430. |
|  | Material: stainless steel AISI 304. |
|  | Material: aluminum, anodized. |
|  | Material: aluminum. |
|  | Material: zinc plated steel. |
|  | Nominal diameter 41mm. |
|  | Product suitable for assembly to a rectangular profile. |
|  | Max load capacity. |
|  | Wrench size. |

| | | | | |
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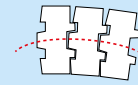
INDEX METAL CHAINS

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STRAIGHT

| FLAT TOP | RUBBER TOP |
|--|--|
|  1 1 0 2 0 a 812 - 815 - 815L 1 1 0 4 0 a ⚙️ |  1 1 1 5 0 a 815VG - 815 VG TAB 1 1 0 4 0 b ⚙️ |
|  1 1 1 2 0 a 800 - 802 - 805 1 1 1 2 0 a ⚙️ |  1 1 1 5 0 a 814 VG  1 1 3 3 0 a ⚙️ |
|  1 1 1 0 0 a 8157 1 1 1 0 0 a ⚙️ |  1 1 1 8 0 a 8157 VG - 8157 TAB VG 1 1 1 0 0 a ⚙️ |
|  1 1 1 3 0 a 515 1 1 1 3 0 a ⚙️ |  1 1 1 8 0 a 805 VG 1 1 1 2 0 a ⚙️ |



SIDEFLEXING

| FLAT TOP | RUBBER TOP |
|---|--|
|   1 1 0 6 0 a 881M - 881MO 1 1 0 4 0 a ⚙️ |   1 1 1 6 0 a 881 MO VG 1 1 0 9 0 a ⚙️ |
|   1 1 0 7 0 a 881R TAB - 8810 TAB 1 1 0 9 0 a ⚙️ |   1 1 1 6 0 a 8857 M VG 1 1 1 0 0 a ⚙️ |
|   1 1 0 8 0 a 8810 1 1 0 9 0 a ⚙️ | |
|   1 1 1 1 0 a 8857 TAB - 8857M 1 1 1 0 0 a ⚙️ | |

FOR OTHER TYPES OF CHAIN GO TO:

- 1 1 0 1 1 a** Index Straight running thermoplastic chains
- 1 1 0 1 2 a** Index Sideflexing thermoplastic chains
- 1 1 0 1 3 a** Index other types of chains

PLATE TOP

| |
|--|
|  1 1 1 4 0 a 1874 |
|--|

GRIPPER

| |
|--|
|  1 1 4 5 0 a 1874 GV |
|--|



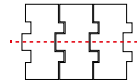
Information about this product is only available on our Smart Guide® website.

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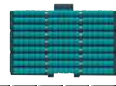








1 1 0 1 1 a

INDEX STRAIGHT RUNNING THERMOPLASTIC CHAINS

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STRAIGHT

| FLAT TOP | PLATE TOP | RUBBER TOP | LBP |
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|  1 1 1 9 0 a 820 - 820P - 831 1 1 2 0 0 a ⚙️ |   1 1 4 6 0 a 843 - 845 |  1 1 3 8 0 a 831 VG 1 1 2 0 0 a ⚙️ |   1 1 3 4 0 a LBP 831 1 1 2 0 0 a ⚙️ |
|  1 1 2 1 0 a 828 1 1 2 6 0 a ⚙️ |   1 1 4 6 0 a 863 |  1 1 4 1 0 a 8257 VG 1 1 3 0 0 a ⚙️ |  1 1 3 7 0 a LBP 8257 1 1 3 0 0 a ⚙️ |
|  1 1 3 1 0 a 8257 1 1 3 0 0 a ⚙️ | |  1 1 4 1 0 a 821 VG 1 1 3 2 0 b ⚙️ |  1 1 3 7 0 a LBP 821 1 1 3 2 0 b ⚙️ |
|  1 1 3 2 0 a 821  1 1 3 2 0 b ⚙️ | | | |
|   1 1 3 3 0 a SK 38  1 1 3 3 0 a ⚙️ | | | |



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FOR OTHER TYPES OF CHAIN GO TO:

1 1 0 1 0 a

Index Metal chains

1 1 0 1 2 a

Index Sideflexing thermoplastic chains

1 1 0 1 3 a

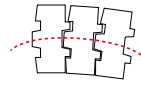
Index other types of chains

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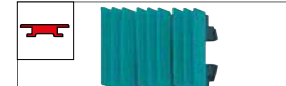
















1 1 0 1 2 a

INDEX SIDEFLEXING THERMOPLASTIC CHAINS

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SIDEFLEXING


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|  <p>1 1 2 2 0 a 879M - 880M</p> <p>1 1 2 6 0 a ⚙️</p> |  <p>1 1 4 7 0 a 1843 TAB</p> |  <p>1 1 3 8 0 a 879 M VG</p> <p>1 1 2 6 0 b ⚙️</p> |  <p>1 1 4 3 0 a 878 TAB GS</p> <p>1 1 2 6 0 a ⚙️</p> |
|  <p>1 1 2 3 0 a 877TAB - 878TAB 879TAB - 880TAB</p> <p>1 1 2 6 0 a ⚙️</p> |  <p>1 1 4 7 0 a 1873 TAB</p> |  <p>1 1 3 9 0 a 878 TAB VG - 879 TAB VG</p> <p>1 1 2 6 0 a ⚙️</p> |  <p>1 1 4 4 0 a 1873 TAB GS</p> |
|  <p>1 1 2 4 0 a 879 - 880</p> <p>1 1 2 6 0 a ⚙️</p> |  <p>1 1 4 9 0 a 1863 TAB</p> |  <p>1 1 4 0 0 a 882 M VG - 882 TAB VG</p> <p>1 1 3 0 0 a ⚙️</p> | |
|  <p>1 1 2 4 0 b 880P</p> <p>1 1 2 6 0 a ⚙️</p> | |  <p>1 1 4 2 0 a 1873 TAB VG</p> | <p>LBP</p>  <p>1 1 3 5 0 a LBP 878 TAB</p> <p>1 1 2 6 0 a ⚙️</p> |
|  <p>1 1 2 8 0 a 882M</p> <p>1 1 3 0 0 a ⚙️</p> |  <p>1 1 2 3 5 a 880TAB - VACUUM</p> <p>1 1 2 6 0 a ⚙️</p> |  <p>1 1 4 2 5 a 1873 TAB VG - NECK STERILIZER</p> |  <p>1 1 3 5 0 a LBP 879 M</p> <p>1 1 2 6 0 a ⚙️</p> |
|  <p>1 1 2 9 0 a 882 BEVEL - 882 TAB</p> <p>1 1 3 0 0 a ⚙️</p> | | |  <p>1 1 3 6 0 a LBP 882 M - LBP 882 TAB</p> <p>1 1 3 0 0 a ⚙️</p> |

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1 1 0 1 3 a Index other types of chains

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OTHER TYPES OF CHAIN

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SIDEFLEXING

| | MULTIFLEX | CRATE CONVEYOR | |
|---------------------|--|--|---|
| |  1 1 5 3 0 a 1700 - 1702 - 1701 TAB 1 1 5 5 0 a ⚙️ |  1 1 5 7 0 a CC 600 - CC 600 TAB 1 1 5 8 0 a ⚙️ |  1 1 5 9 0 a CC 1400 - CC 1400 TAB 1 1 5 9 0 a ⚙️ |
| SAFETY CHAIN |  1 1 5 3 0 a 1706 1 1 5 5 0 a ⚙️ |  1 1 5 7 0 a CC 600 P - CC 600 TAB P 1 1 5 8 0 a ⚙️ |  1 1 5 9 0 a CC 1431 TAB 1 1 5 9 0 a ⚙️ |
| |  1 1 5 4 0 a 1710 - 1710C TAB 1 1 5 5 0 a ⚙️ |  1 1 5 8 0 a CC 600 F CC 631 TAB 1 1 5 8 0 a ⚙️ |  1 1 6 0 0 a CC 1400V CC 1400V TAB 1 1 6 0 0 a ⚙️ |

FOR OTHER TYPES OF CHAIN GO TO:

- 1 1 0 1 0 a** Index Metal chains
- 1 1 0 1 1 a** Index Straight running thermoplastic chains
- 1 1 0 1 2 a** Index Sideflexing thermoplastic chains

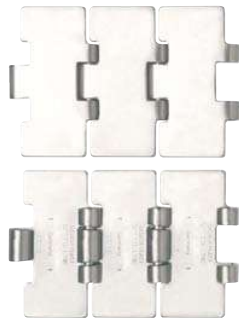
| | | | | |
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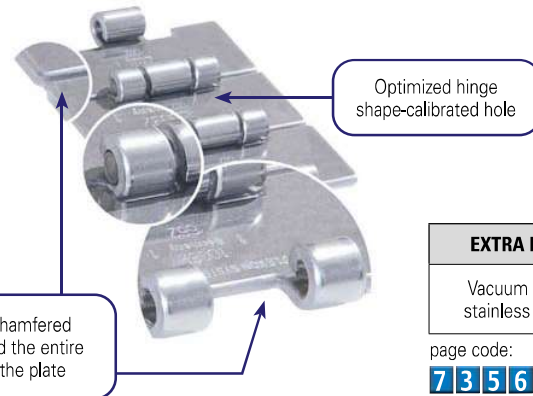
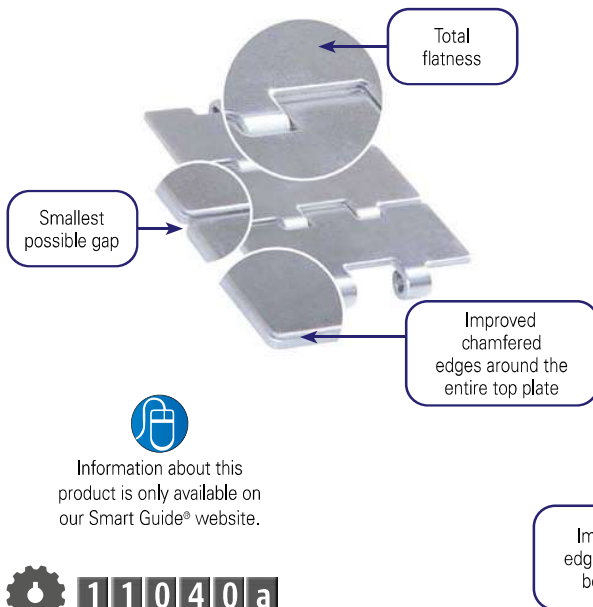
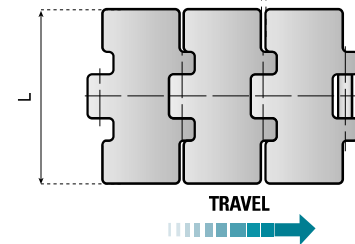
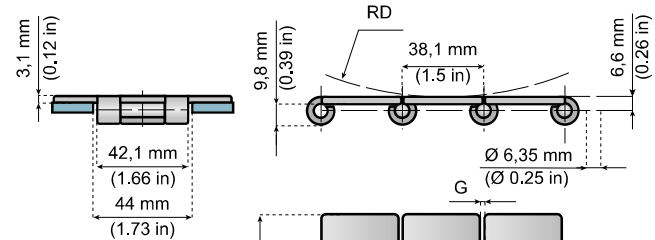
815L

www.SystemPlastSmartGuide.com

(SPEED-LINE) STRAIGHT RUNNING CHAINS - STAINLESS STEEL



**HIGH PERFORMANCE
EXTENDED LIFE**



Information about this product is only available on our Smart Guide® website.

EXTRA PLUS HB
Vacuum hardened stainless steel pins

page code:
73560a

11040a

Advantages:

- The best choice for the most demanding applications, like pressureless combiners and high speed applications.
- Improved flatness.
- Optimum product stability.

Other versions 815:

**VG
Rubber top**



Standard versions: **11030a**

For versions in austenitic and carbon steel material: **11030b**

812L - 815L STRAIGHT RUNNING CHAINS SINGLE HINGE

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | FLATNESS (MAX) | | POLISHED HINGES | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|---------------|-------------------|------|--------------|----------------|-------|-----------------|---------|-----|-----|------|------|---------|--------|-----|
| | | N | lbs | | mm | in | | mm | in | mm | in | Kg/m | lbs/ft. | | |
| SSEL815-K325 | Extra plus | 6000 | 1350 | 0,3 | 0,1 | 0.004 | no | 82,5 | 3 ¼ | 1,5 | 0.06 | 150 | 5.9 | 2,6 | 1.7 |
| SSEL815-K325HB | Extra plus HB | | | | | | | | | | | | | | |

815L SPEED - LINE STRAIGHT RUNNING CHAINS SINGLE HINGE

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | FLATNESS (MAX) | | POLISHED HINGES | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|---------------|-------------------|------|--------------|----------------|-------|-----------------|---------|---------|-----|------|------|---------|--------|-----|
| | | N | lbs | | mm | in | | mm | in | mm | in | Kg/m | lbs/ft. | | |
| SPSL815-K325 | Extra plus | 6000 | 1350 | 0,2 | 0,1 | 0.004 | yes | 82,5 | 3 ¼ | 1,5 | 0.06 | 150 | 5.9 | 2,6 | 1.7 |
| SPSL815-K330 | | | | | | | | 83,8 | 3 19/64 | | | | | | |
| SPSL815-K325HB | Extra plus HB | 6000 | 1350 | 0,2 | 0,1 | 0.004 | yes | 82,5 | 3 ¼ | 1,5 | 0.06 | 150 | 5.9 | 2,6 | 1.7 |
| SPSL815-K330HB | | | | | | | | 83,8 | 3 19/64 | | | | | | |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

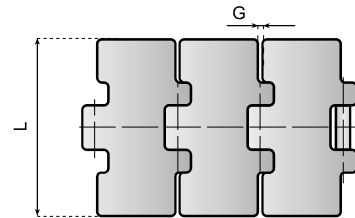
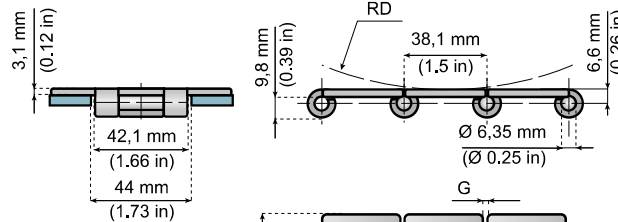
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11030a

812 - 815

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STRAIGHT RUNNING CHAINS - FERRITIC STAINLESS STEEL



EXTRA PLUS HB

Vacuum hardened stainless steel pins

page code: **73560a**



Information about this product is only available on our Smart Guide® website.

11040a

Advantages:

- Complete program to cover all applications
- All materials
- All sizes

For chains with further improved characteristics:

11020a

For versions in austenitic and carbon steel material:

11030b

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | FLATNESS (MAX) | | POLISHED HINGES | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|---------------|-------------------|------|--------------|----------------|-------|-----------------|---------|-----|-----|------|-----|-----|--------|---------|
| | | N | lbs | | mm | in | | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSL812-K325 | STANDARD | 5400 | 1220 | 0,6 | 0,1 | 0.004 | no | 82,5 | 3 ¼ | 1,5 | 0,06 | 150 | 5,9 | 2,6 | 1,7 |
| SS812-K400 | | | | | 101,6 | 4 | | 3,0 | 2,0 | | | | | | |
| SS812-K450 | | | | | 114,3 | 4 ½ | | 3,3 | 2,2 | | | | | | |
| SS812-K600 | | | | | 152,4 | 6 | | 4,2 | 2,8 | | | | | | |
| SS812-K750 | | | | | 190,5 | 7 ½ | | 5,1 | 3,4 | | | | | | |
| SSE815-K250 | Extra plus | 6000 | 1350 | 0,3 | 0,15 | 0.006 | no | 63,5 | 2 ½ | 1,8 | 0,07 | 150 | 5,9 | 2,3 | 1,5 |
| SSE815-K263 | | | | | 66,8 | 2 ⅝ | | 2,4 | 1,6 | | | | | | |
| SSE815-K300 | | | | | 76,2 | 3 | | 2,5 | 1,7 | | | | | | |
| SSEL815-K325 | | | | | 0,10 | 0.004 | yes | 82,5 | 3 ¼ | 1,5 | 0,06 | 75 | 2,9 | 2,6 | 1,7 |
| SSSR815-K325 | | | | | 0,15 | 0.006 | | 82,5 | 3 ¼ | 2,8 | 0,11 | | | 2,6 | 1,7 |
| SPSL815-K330 | | | | | 0,10 | 0.004 | yes | 83,8 | 3 ⅜ | 1,5 | 0,06 | 150 | 5,9 | 2,6 | 1,7 |
| SSE815-K350 | | | | | 0,15 | 0.006 | no | 88,9 | 3 ½ | 1,8 | 0,07 | | | 2,7 | 1,8 |
| SSE815-K400 | | | | | 0,2 | 0.008 | | 101,6 | 4 | | | | | 3,0 | 2,0 |
| SSE815-K750 | | | | | 0,3 | 0.012 | 190,5 | 7 ½ | 5,1 | 3,4 | | | | | |
| SSEL815-K325HB | Extra plus HB | 6000 | 1350 | 0,3 | 0,10 | 0.004 | no | 82,5 | 3 ¼ | 1,5 | 0,06 | 150 | 5,9 | 2,6 | 1,7 |
| SSE815-K350HB | | | | | 0,15 | 0.006 | | 88,9 | 3 ½ | | | | | 2,7 | 1,8 |
| SSE815-K450HB | | | | | 0,2 | 0.008 | | 114,3 | 4 ½ | | | | | 3,3 | 2,2 |
| SSE815-K600HB | | | | | 0,3 | 0.012 | | 152,4 | 6 | | | | | 4,2 | 2,8 |
| SSE815-K750HB | | | | | 190,5 | 7 ½ | | 5,1 | 3,4 | | | | | | |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

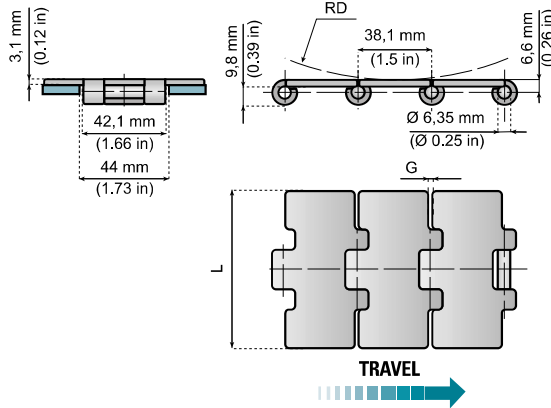
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11030b

815

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STRAIGHT RUNNING CHAINS - CARBON STEEL AND AUSTENITIC STAINLESS STEEL



Advantages:

- Complete program to cover all applications
- All materials
- All sizes

MOQ Min. order quantity: 100 m.



11040a

See also the chains:



11020a

11030a

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | FLATNESS (MAX) | | POLISHED HINGES | WIDTH L | | G | | RD | | WEIGHT | |
|----------------------------|------------|-------------------|------|--------------|----------------|-------|--------------------|---------|---------------------------------|-----|------|------|---------|--------|-----|
| | | N | lbs | | mm | in | | mm | in | mm | in | Kg/m | lbs/ft. | | |
| S815-K325 | C 45 | 12000 | 2700 | - | - | - | no | 82,5 | 3 ¼ | 1,8 | 0,07 | 150 | 5,9 | 2,6 | 1,7 |
| S815-K350 | | | | | | | | 88,9 | 3 ½ | | | | | 2,7 | 1,8 |
| S815-K450 | | | | | | | | 114,3 | 4 ½ | | | | | 3,3 | 2,2 |
| S815-K600 | | | | | | | | 152,4 | 6 | | | | | 4,2 | 2,8 |
| S815-K750 | | | | | | | | 190,5 | 7 ½ | | | | | 5,1 | 3,4 |
| SSA815-K325 | Austenitic | 5300 | 1190 | 0,3 | 0,15 | 0,006 | no | 82,5 | 3 ¼ | 1,8 | 0,07 | 150 | 5,9 | 2,6 | 1,7 |
| SSA815-K330 | | | | | | | | 83,8 | 3 ¹⁹ / ₆₄ | | | | | 2,6 | 1,7 |
| SSA815-K350 ^{MOQ} | | | | | | | | 88,9 | 3 ½ | | | | | 2,7 | 1,8 |
| SSA815-K450 | | | | | 0,2 | 0,008 | | 114,3 | 4 ½ | | | | | 3,3 | 2,2 |
| SSA815-K600 | | | | | | | | 152,4 | 6 | | | | | 4,2 | 2,8 |
| SSA815-K750 | | | | | | | | 190,5 | 7 ½ | | | | | 5,1 | 3,4 |

Standard length: 80 pitches (3,048 m - 10 ft.)

Breaking load according to standard ISO 4348 - DIN 8153

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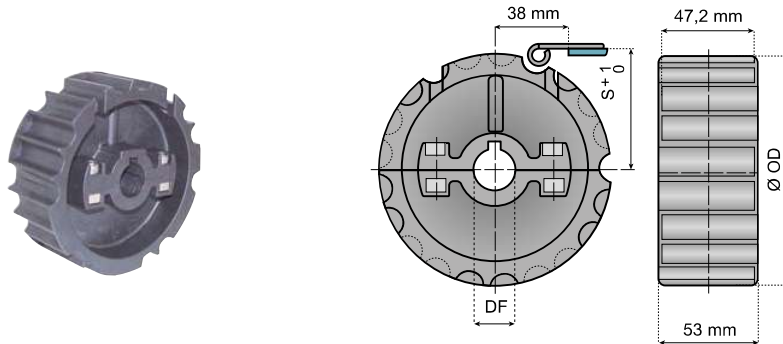
DRIVE SPROCKETS

www.SystemPlastSmartGuide.com

FOR CHAINS 812 - 815 (VG) - 881 (M-MO)

Features:

- Split versions: quick and easy replacement.
- Foolproof design.
- Excellent wear and chemical resistance.
- Recyclable.



| Z | MOLDED DRIVE SPROCKETS - SPLIT FIXED | | | | | Z | Ø OD mm | Ø P mm | S mm |
|----|--------------------------------------|---------------|---------------|---------------|---------------|----|---------|--------|------|
| | Ø 25 | Ø 30 | Ø 35 | Ø 40 | Ø 45 | | | | |
| | ITEM DESCRIPTION | | | | | | | | |
| 21 | 815-21R25M-DS | 815-21R30M-DS | 815-21R35M-DS | 815-21R40M-DS | 815-21R45M-DS | 21 | 129 | 129,26 | 67,8 |
| 23 | 815-23R25M-DS | 815-23R30M-DS | 815-23R35M-DS | 815-23R40M-DS | - | 23 | 142 | 141,21 | 73,8 |
| 25 | 815-25R25M-DS | 815-25R30M-DS | 815-25R35M-DS | 815-25R40M-DS | 815-25R45M-DS | 25 | 154 | 153,21 | 79,8 |

Material: reinforced polyamide (black); screws in stainless steel, nuts in nickel plated brass, DIN 6885 key seat.



Information about this product is only available on our Smart Guide® website.



See also the sprockets and idler wheels:

11040b **11050a**
11050b **11090c**



See also the chains:

812-815
11020a **11030a** **11030b**

815 VG
11150a

881M - 881MO
11060a

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11040b

www.SystemPlastSmartGuide.com

DRIVE AND RETURN SPROCKETS

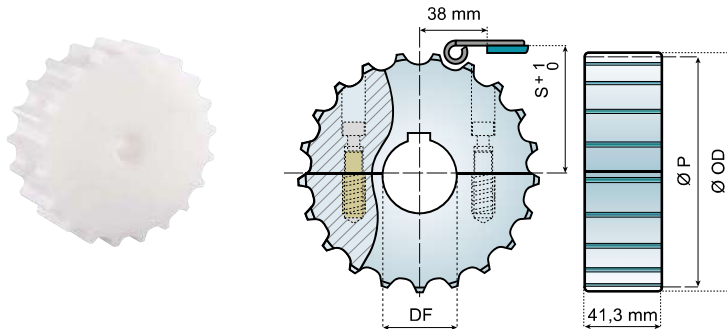
FOR CHAINS 812-815 (VG)-881 (M-MO-TAB-VG)-8157 (VG)-8857TAB

New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



| Z | Ø OD mm | Ø P mm | S mm |
|----|---------|--------|------|
| 17 | 103,9 | 105,47 | 55,9 |
| 19 | 117 | 117,34 | 61,9 |
| 21 | 129 | 129,26 | 67,8 |
| 23 | 142 | 141,21 | 73,8 |
| 25 | 154 | 153,21 | 79,8 |
| 27 | 166,8 | 165,20 | 85,8 |
| 29 | 178,5 | 177,24 | 91,8 |

| MACHINED DRIVE SPROCKETS - SPLIT FIXED | | | | | | |
|--|------------------|----------------|----------------|----------------|----------------|----------------|
| Z | Ø 23* | Ø 25 | Ø 30 | Ø 35 | Ø 40 | Ø 45 |
| | ITEM DESCRIPTION | | | | | |
| 17 | - | 815-17R25M-DMS | 815-17R30M-DMS | 815-17R35M-DMS | 815-17R40M-DMS | - |
| 19 | - | 815-19R25M-DMS | 815-19R30M-DMS | 815-19R35M-DMS | 815-19R40M-DMS | - |
| 21 | - | 815-21R25M-DMS | 815-21R30M-DMS | 815-21R35M-DMS | 815-21R40M-DMS | 815-21R45M-DMS |
| 23 | - | 815-23R25M-DMS | 815-23R30M-DMS | 815-23R35M-DMS | 815-23R40M-DMS | 815-23R45M-DMS |
| 25 | - | 815-25R25M-DMS | 815-25R30M-DMS | 815-25R35M-DMS | 815-25R40M-DMS | 815-25R45M-DMS |
| 27 | - | 815-27R25M-DMS | 815-27R30M-DMS | 815-27R35M-DMS | 815-27R40M-DMS | - |
| 29 | - | 815-29R25M-DMS | - | 815-29R35M-DMS | 815-29R40M-DMS | - |
| MACHINED RETURN SPROCKETS - SPLIT | | | | | | |
| 17 | 815-17R23M-RMS | 815-17R25M-RMS | 815-17R30M-RMS | 815-17R35M-RMS | 815-17R40M-RMS | - |
| 19 | 815-19R23M-RMS | 815-19R25M-RMS | 815-19R30M-RMS | 815-19R35M-RMS | 815-19R40M-RMS | - |
| 21 | 815-21R23M-RMS | 815-21R25M-RMS | 815-21R30M-RMS | 815-21R35M-RMS | 815-21R40M-RMS | - |
| 23 | 815-23R23M-RMS | 815-23R25M-RMS | 815-23R30M-RMS | 815-23R35M-RMS | 815-23R40M-RMS | - |
| 25 | 815-25R23M-RMS | 815-25R25M-RMS | 815-25R30M-RMS | 815-25R35M-RMS | 815-25R40M-RMS | - |
| 27 | 815-27R23M-RMS | 815-27R25M-RMS | 815-27R30M-RMS | 815-27R35M-RMS | 815-27R40M-RMS | - |
| 29 | 815-29R23M-RMS | 815-29R25M-RMS | 815-29R30M-RMS | 815-29R35M-RMS | 815-29R40M-RMS | - |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat. *Plain bore



See also the chains:

812-815

11020a
11030a
11030b

815 VG

11150a

881M - 881MO

11060a



See also the sprockets and idler wheels:

11040a
11050a
11050b
11090c



Information about this product is only available on our Smart Guide® website.

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11050a

www.SystemPlastSmartGuide.com

IDLER WHEELS

FOR CHAINS 812 - 815 (VG) - 820 - 828 - 831 (LBP) - 881 (M-MO)

Features:

- Split versions: quick and easy replacement.
- Excellent wear and chemical resistance.
- Recyclable.



See also the chains:

812-815

11020a

11030a

11030b

LBP 831

11340a

881M - 881MO

11060a

820-820P - 831

11190a

828

11210a



Information about this product is only available on our Smart Guide® website.

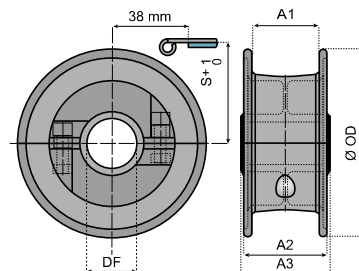
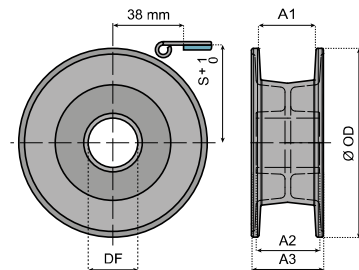


See also the sprockets and idler wheels:

11050b

11090c

11040b



| MOLDED IDLER WHEELS - ONE PIECE | | | | |
|--------------------------------------|------------------|---------------|---------------|---------------|
| Z | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
| | ITEM DESCRIPTION | | | |
| 15 | - | 820-15R30M-W | 820-15R35M-W | 820-15R40M-W |
| 17 | 820-17R25M-W | 820-17R30M-W | - | - |
| 19 | 820-19R25M-W | 820-19R30M-W | 820-19R35M-W | 820-19R40M-W |
| MOLDED IDLER WHEELS - SPLIT FLOATING | | | | |
| 21 | 820-21R25M-WS | 820-21R30M-WS | 820-21R35M-WS | 820-21R40M-WS |
| 23 | 820-23R25M-WS | 820-23R30M-WS | 820-23R35M-WS | 820-23R40M-WS |
| 25 | 820-25R25M-WS | 820-25R30M-WS | 820-25R35M-WS | 820-25R40M-WS |

Material: reinforced polyamide (black); screws in stainless steel, nuts in stainless steel.

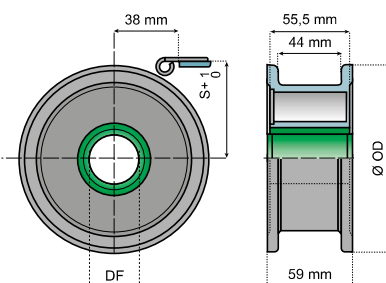
SELF-LUBE BUSHING



| Z | Ø OD mm | S mm | A1 mm | A2 mm | A3 mm |
|----|---------|------|-------|-------|-------|
| 15 | 90 | 48,2 | 48 | 82 | 82 |
| 17 | 106 | 56,2 | 44 | 52 | 52 |
| 19 | 117 | 62,6 | 44 | 52 | 58 |
| 21 | 129,8 | 68,6 | 44 | 57 | 61 |
| 23 | 142,2 | 74,6 | 44 | 57 | 61 |
| 25 | 154,7 | 80,5 | 44 | 57 | 61 |

Features:

- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



| MOLDED IDLER WHEELS - ONE PIECE | | | | |
|---------------------------------|------------------|---------------|---------------|---------------|
| Z | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
| | ITEM DESCRIPTION | | | |
| 21 | 820-21R25M-WL | 820-21R30M-WL | 820-21R35M-WL | 820-21R40M-WL |
| 23 | 820-23R25M-WL | 820-23R30M-WL | 820-23R35M-WL | 820-23R40M-WL |
| 25 | 820-25R25M-WL | 820-25R30M-WL | 820-25R35M-WL | 820-25R40M-WL |

Material: reinforced polyamide (black).

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11050b

MACHINED IDLER WHEELS

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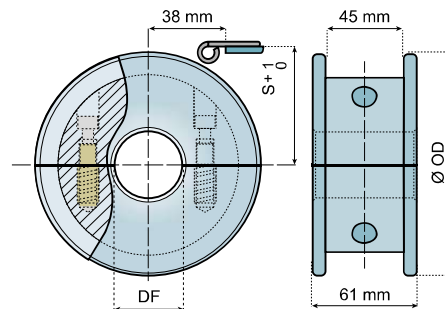
FOR CHAINS 812 - 815 (VG) - 820 - 828 - 831 (LBP) - 881 (M-MO)

New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



| Z | Ø OD mm | S mm |
|----|---------|------|
| 17 | 104 | 56,2 |
| 19 | 117 | 62,6 |
| 21 | 129,8 | 68,6 |
| 23 | 142,2 | 74,6 |
| 25 | 154,7 | 80,5 |

| MACHINED IDLER WHEELS - SPLIT | | | | | |
|-------------------------------|------------------|----------------|----------------|----------------|----------------|
| Z | Ø 20 | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
| | ITEM DESCRIPTION | | | | |
| 17 | 820-17R20M-WMS | 820-17R25M-WMS | 820-17R30M-WMS | 820-17R35M-WMS | 820-17R40M-WMS |
| 19 | 820-19R20M-WMS | 820-19R25M-WMS | 820-19R30M-WMS | 820-19R35M-WMS | 820-19R40M-WMS |
| 21 | 820-21R20M-WMS | 820-21R25M-WMS | 820-21R30M-WMS | 820-21R35M-WMS | 820-21R40M-WMS |
| 23 | 820-23R20M-WMS | 820-23R25M-WMS | 820-23R30M-WMS | 820-23R35M-WMS | 820-23R40M-WMS |
| 25 | 820-25R20M-WMS | 820-25R25M-WMS | 820-25R30M-WMS | 820-25R35M-WMS | 820-25R40M-WMS |

Material: polyamide (natural white); screws in stainless steel, bushings in brass.



See also the chains:

812-815

11020a

11030a

11030b

815 VG

11150a

820 - 820P - 831

11190a

881M - 881MO

11060a

LBP 831

11340a

828

11210a



See also the sprockets and idler wheels:

11050a

11090c

11040b



Information about this product is only available on our Smart Guide® website.

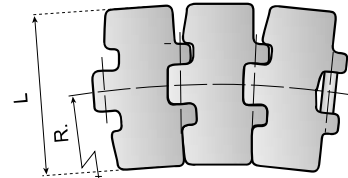
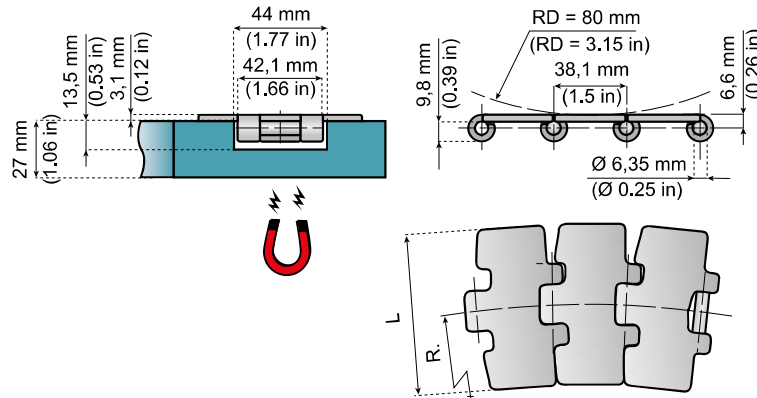
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11060a

881M - 881MO

www.SystemPlastSmartGuide.com

SIDEFLEXING CHAINS FOR MAGNETIC SYSTEM



Characteristics:

- The chains series 881 M and 8857 M are securely retained in the curve by magnets located under the hinge of the chain in the upper part of curve. As there are no TAB or BEVEL shoes on these chains they can be easily removed from the curve for maintenance or for cleaning, without dismantling the chain.
- The enlarged surface of our 881 MO series offers improved product support compared to the 881 M series.

Advantages:

- Optimum flatness of chains in curves
- Less power consumption
- For high speed lines
- Best product transfer along as well as across the running direction
- All advantages of the magnetic system
- The best choice for the most demanding applications, like pressureless combiners and high speed applications
- Improved flatness
- Optimum product stability

Pin Material: Ferritic Stainless Steel.

Other versions 881MO:

VG
Rubber top



Information about this product is only available on our Smart Guide® website.



50010a



11040a

EXTRA PLUS HB

Vacuum hardened stainless steel pins

page code:

73560a

881 M - 881MO SIDEFLEXING CHAINS FOR MAGNETIC SYSTEM

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | FLATNESS (MAX) | | POLISHED HINGES | WIDTH L | | R MIN. | | WEIGHT | |
|------------------|---------------|-------------------|------|--------------|----------------|-------|-----------------|---------|---------|--------|------|--------|---------|
| | | N | lbs | | mm | in | | mm | in | mm | in | Kg/m | lbs/ft. |
| SSL881MO-K325 | STANDARD | 5400 | 1220 | 0,6 | 0,1 | 0,004 | yes | 82,5 | 3 ¼ | 500 | 19,7 | 2,6 | 1,7 |
| SS881M-K450 | | | | | 0,2 | 0,008 | | 114,3 | 4 ½ | | | 3,1 | 2,1 |
| SS881M-K750 | | | | | 0,3 | 0,012 | | 190,5 | 7 ½ | | | 4,9 | 3,3 |
| SSEL881MO-K325 | Extra plus | 6000 | 1350 | 0,3 | 0,1 | 0,004 | yes | 82,5 | 3 ¼ | 500 | 19,7 | 2,6 | 1,7 |
| SSE881MO-K330 | | | | | 0,15 | 0,006 | | 83,8 | 3 19/64 | | | 2,7 | 1,8 |
| SSE881M-K750 | | | | | 0,3 | 0,012 | | 190,5 | 7 ½ | | | 4,9 | 3,3 |
| SSEL881MO-K325HB | Extra plus HB | 6000 | 1350 | 0,3 | 0,1 | 0,004 | yes | 82,5 | 3 ¼ | 500 | 19,7 | 2,5 | 1,7 |
| SSE881MO-K330HB | | | | | 0,15 | 0,006 | | 83,8 | 3 19/64 | | | 2,7 | 1,8 |
| SSE881M-K450HB | | | | | 0,2 | 0,008 | | 114,3 | 4 ½ | | | 3,1 | 2,1 |
| SSE881M-K750HB | | | | | 0,4 | 0,016 | | 190,5 | 7 ½ | | | 4,9 | 3,3 |

L881 MO SPEED - LINE SIDEFLEXING CHAINS FOR MAGNETIC SYSTEM

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | FLATNESS (MAX) | | POLISHED HINGES | WIDTH L | | R MIN. | | WEIGHT | |
|------------------|---------------|-------------------|-------|--------------------|----------------|-------|-----------------|---------|---------|--------|------|--------|---------|
| | | N | lbs | | mm | in | | mm | in | mm | in | Kg/m | lbs/ft. |
| SPSL881MO-K325 | Extra plus | 6000 | 1,350 | 0,2 SUPERFINISH | 0,1 | 0,004 | yes | 82,5 | 3 ¼ | 500 | 19,7 | 2,5 | 1,7 |
| SPSL881MO-K330 | | | | | | | | 83,8 | 3 19/64 | | | 2,6 | |
| SPSL881MO-K325HB | Extra plus HB | 6000 | 1,350 | 0,2 SUPERFINISH | 0,1 | 0,004 | yes | 82,5 | 3 ¼ | 500 | 19,7 | 2,5 | 1,7 |
| SPSL881MO-K330HB | | | | | | | | 83,8 | 3 19/64 | | | 2,6 | |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

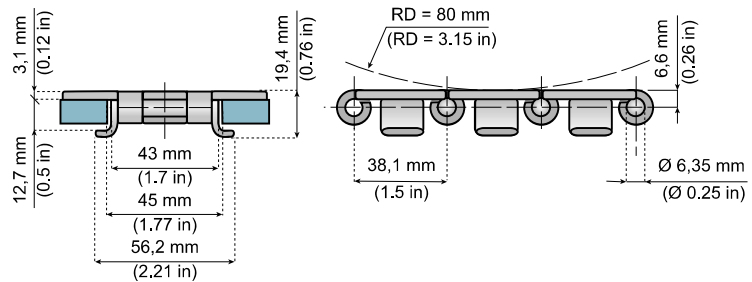
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11070a

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881R TAB - 8810 TAB

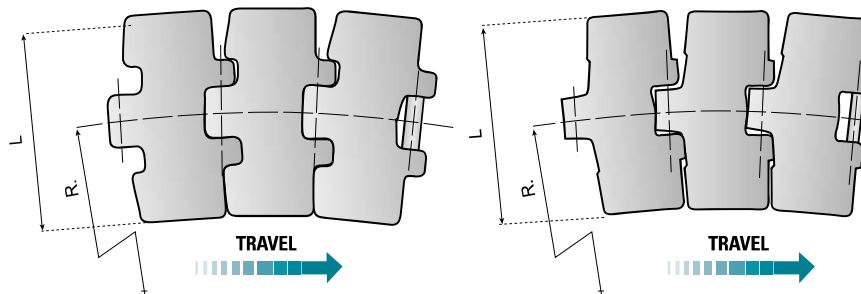
SIDEFLEXING CHAINS FOR TAB SYSTEM



8810 chain utilizes an optimized hinge versus previous 881 design for better product handling. 8810 uses the same sprockets and wear track as 881 but the two are not able to be linked together due to different link design.

8810 TAB Optimized hinge shape

881R TAB



| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH µm | WIDTH L | | R MIN. | | WEIGHT | |
|--------------------------------|---------------|-------------------|------|--------------|---------|-----|--------|------|--------|---------|
| | | N | lbs | | mm | in | mm | in | Kg/m | lbs/ft. |
| SS881OTAB-K325 | STANDARD | 4400 | 990 | 0,6 | 82,5 | 3 ¼ | 500 | 19,7 | 3,0 | 2,0 |
| SS881OTAB-K450 | | | | | 114,3 | 4 ½ | | | 3,0 | 2,0 |
| SSE881RTAB-K325 | EXTRA | 4850 | 1090 | 0,6 | 82,5 | 3 ¼ | 200 | 7,9 | 3,0 | 2,0 |
| SSE881OTAB-K325 | Extra plus | 6000 | 1350 | 0,3 | 82,5 | 3 ¼ | 500 | 19,7 | 3,0 | 2,0 |
| SSE881OTAB-K450 | | | | | 114,3 | 4 ½ | | | 3,7 | 2,5 |
| SSE881OTAB-K750 | | | | | 190,5 | 7 ½ | | | 5,5 | 3,7 |
| SSE881OTAB-K325HB | Extra plus HB | | | | 82,5 | 3 ¼ | | | 3,0 | 2,0 |
| SSA881OTAB-K325 | Austenitic | 4500 | 3020 | 0,3 | 82,5 | 3 ¼ | 500 | 19,7 | 3,00 | 2,0 |
| SSA881OTAB-K450 | | | | | 114,3 | 4 ½ | | | 3,70 | 2,5 |
| SSA881OTAB-K750 ^{MOQ} | | | | | 190,5 | 7 ½ | | | 5,50 | 3,7 |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

MOQ Min. order quantity: 30 m.



Information about this product is only available on our Smart Guide® website.



11090a



50110a

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

SYSTEM PLAST®

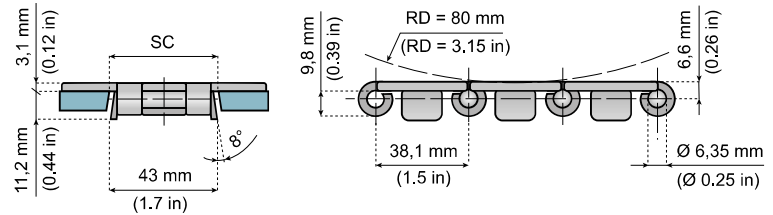
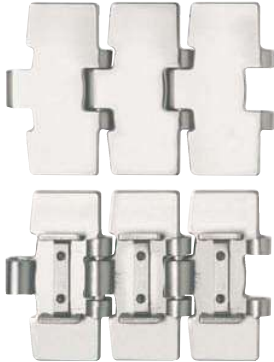


11080a

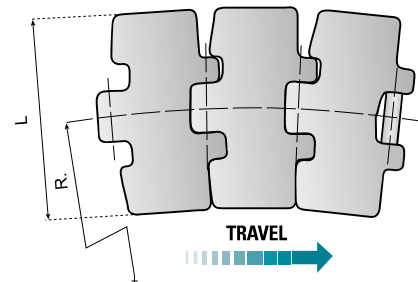
8810

www.SystemPlastSmartGuide.com

SIDEFLEXING CHAINS BEVEL SYSTEM



**8810 TAB
Optimized hinge shape**



| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH μm | WIDTH L | | R MIN. | SC | | | | WEIGHT | | |
|------------------|------------|-------------------|------|----------------------|---------|-----|--------|----------|------|---------|------|--------|---------|-----|
| | | N | lbs | | mm | in | | STRAIGHT | | CURVING | | Kg/m | lbs/ft. | |
| | | | | | | | | mm | in | mm | in | | | |
| SSE8810-K325 | Extra plus | 6000 | 1350 | 0,3 | 82,5 | 3 ¼ | 500 | 19.7 | 44,5 | 1.75 | 41,5 | 1.63 | 3,00 | 2.0 |
| SSE8810-K350 | | | | | 88,9 | 3 ½ | | | | | | | 3,20 | 2.2 |
| SSE8810-K450 | | | | | 114,3 | 4 ½ | | | | | | | 3,70 | 2.5 |
| SSE8810-K750 | | | | | 190,5 | 7 ½ | | | | | | | 5,50 | 3.7 |
| SSA8810-K325 | Austenitic | 4500 | 1012 | 0,3 | 82,5 | 3 ¼ | 500 | 19.7 | 44,5 | 1.76 | 41,5 | 1.6 | 3,00 | 2.0 |
| SSA8810-K450 | | | | | 114,3 | 4 ½ | | | | | | | 3,70 | 2.5 |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153



Information about this product is only available on our Smart Guide® website.



11090a



50130a

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11090a

DRIVE AND RETURN SPROCKETS

www.SystemPlastSmartGuide.com

FOR CHAINS 8810(TAB) - 881R TAB - 881MO VG

Features:

- Split versions: quick and easy replacement.
- Foolproof design.
- Excellent wear and chemical resistance.
- Recyclable.



See also the chains:

881 MO VG
11160a
881R TAB - 8810 TAB
11070a
8810
11080a



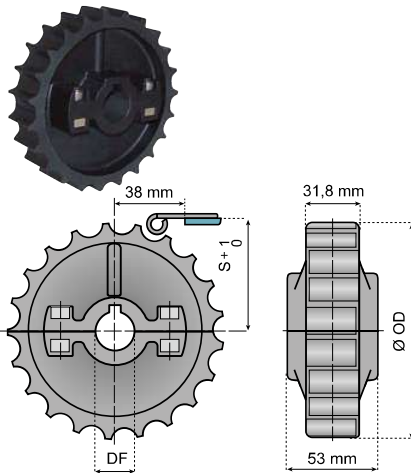
See also the sprockets and idler wheels:

11090b

11090c



Information about this product is only available on our Smart Guide® website.



MOLDED DRIVE SPROCKETS - SPLIT FIXED

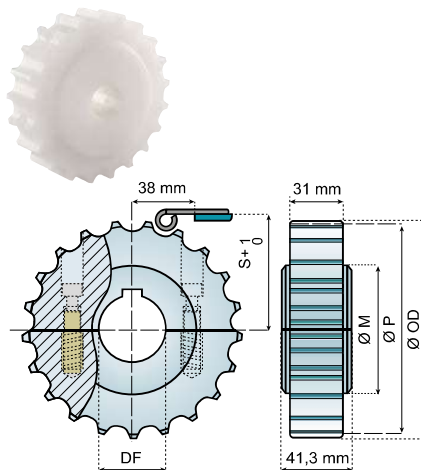
| Z | Ø25 | Ø 30 | Ø 35 | Ø 40 |
|----|-------------------------|----------------------|----------------------|----------------------|
| | ITEM DESCRIPTION | | | |
| 21 | 881-21R25M-DS | 881-21R30M-DS | 881-21R35M-DS | 881-21R40M-DS |
| 23 | 881-23R25M-DS | 881-23R30M-DS | 881-23R35M-DS | 881-23R40M-DS |
| 25 | 881-25R25M-DS | 881-25R30M-DS | 881-25R35M-DS | 881-25R40M-DS |



MOLDED RETURN SPROCKETS - SPLIT

| | | | | |
|----|----------------------|----------------------|----------------------|----------------------|
| 21 | 881-21R25M-RS | 881-21R30M-RS | 881-21R35M-RS | 881-21R40M-RS |
| 23 | 881-23R25M-RS | 881-23R30M-RS | 881-23R35M-RS | 881-23R40M-RS |
| 25 | 881-25R25M-RS | 881-25R30M-RS | 881-25R35M-RS | 881-25R40M-RS |

Material: reinforced polyamide (black); screws in stainless steel, nuts in nickel plated brass, DIN 6885 key seat.



New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.

| Z | Ø OD mm | Ø P mm | Ø M mm | S mm |
|----|---------|--------|--------|------|
| 17 | 103,9 | 105,47 | 70 | 55,9 |
| 19 | 117 | 117,34 | 70 | 61,9 |
| 21 | 129 | 129,26 | 85 | 67,8 |
| 23 | 142 | 141,21 | 90 | 73,8 |
| 25 | 154 | 153,21 | 90 | 79,8 |



MACHINED DRIVE SPROCKETS - SPLIT FIXED

| Z | Ø 23* | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
|----|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | ITEM DESCRIPTION | | | | |
| 17 | - | 881-17R25M-DMS | 881-17R30M-DMS | 881-17R35M-DMS | 881-17R40M-DMS |
| 19 | - | 881-19R25M-DMS | 881-19R30M-DMS | 881-19R35M-DMS | 881-19R40M-DMS |
| 21 | - | 881-21R25M-DMS | 881-21R30M-DMS | 881-21R35M-DMS | 881-21R40M-DMS |
| 23 | - | 881-23R25M-DMS | 881-23R30M-DMS | 881-23R35M-DMS | 881-23R40M-DMS |
| 25 | - | 881-25R25M-DMS | 881-25R30M-DMS | 881-25R35M-DMS | 881-25R40M-DMS |



MACHINED RETURN SPROCKETS - SPLIT

| | | | | | |
|----|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 17 | 881-17R23M-RMS | 881-17R25M-RMS | 881-17R30M-RMS | 881-17R35M-RMS | 881-17R40M-RMS |
| 19 | 881-19R23M-RMS | 881-19R25M-RMS | 881-19R30M-RMS | 881-19R35M-RMS | 881-19R40M-RMS |
| 21 | 881-21R23M-RMS | 881-21R25M-RMS | 881-21R30M-RMS | 881-21R35M-RMS | 881-21R40M-RMS |
| 23 | 881-23R23M-RMS | 881-23R25M-RMS | 881-23R30M-RMS | 881-23R35M-RMS | 881-23R40M-RMS |
| 25 | 881-25R23M-RMS | 881-25R25M-RMS | 881-25R30M-RMS | 881-25R35M-RMS | 881-25R40M-RMS |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat. *Plain bore

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11090b

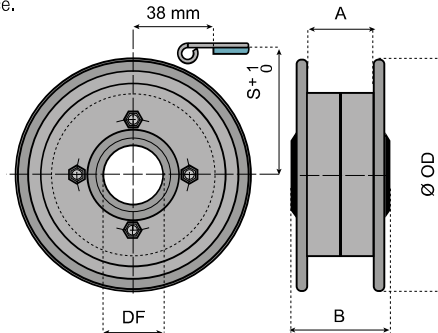
IDLER WHEELS

www.SystemPlastSmartGuide.com

FOR CHAINS 815VG TAB - 881R TAB - 8810 TAB - 8157 - 8857M

Features:

- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



| Z | Ø OD mm | S mm |
|----|---------|------|
| 17 | 104,0 | 56,2 |
| 19 | 117,0 | 62,6 |
| 21 | 129,8 | 68,6 |
| 23 | 142,2 | 74,6 |
| 25 | 154,7 | 80,5 |
| 27 | 167,2 | 86,5 |
| 29 | 179,3 | 92,8 |

| MOLDED IDLER WHEELS - ONE PIECE | | |
|---------------------------------|---------------|---------------|
| A=59 / B=75 | | |
| Z | Ø 30 | Ø 40 |
| ITEM DESCRIPTION | | |
| 19 | 881T-19R30M-W | 881T-19R40M-W |
| 21 | 881T-21R30M-W | 881T-21R40M-W |
| 23 | 881T-23R30M-W | 881T-23R40M-W |
| 25 | 881T-25R30M-W | 881T-25R40M-W |

Material: reinforced polyamide (black); screws in stainless steel.



See also the sprockets and idler wheels:

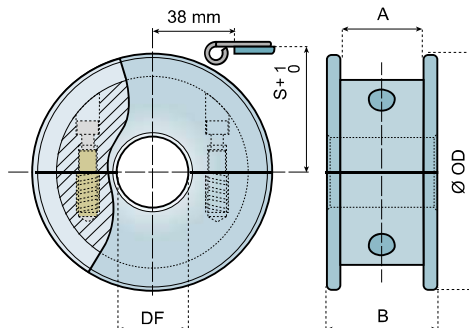
11090a

New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



Information about this product is only available on our Smart Guide® website.



See also the chains:

881R TAB - 8810 TAB
11070a

8157
11100a

8857 M VG
11160a

8857 M
11110a

815 VG TAB
11150a

8257
11310a

| MACHINED IDLER WHEELS - SPLIT | | | | | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A=60 / B=75 | | | | | |
| Z | Ø 20 | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
| ITEM DESCRIPTION | | | | | |
| 17 | 881T-17R20M-WMS | 881T-17R25M-WMS | 881T-17R30M-WMS | 881T-17R35M-WMS | 881T-17R40M-WMS |
| 19 | 881T-19R20M-WMS | 881T-19R25M-WMS | 881T-19R30M-WMS | 881T-19R35M-WMS | 881T-19R40M-WMS |
| 21 | 881T-21R20M-WMS | 881T-21R25M-WMS | 881T-21R30M-WMS | 881T-21R35M-WMS | 881T-21R40M-WMS |
| 23 | 881T-23R20M-WMS | 881T-23R25M-WMS | 881T-23R30M-WMS | 881T-23R35M-WMS | 881T-23R40M-WMS |
| 25 | 881T-25R20M-WMS | 881T-25R25M-WMS | 881T-25R30M-WMS | 881T-25R35M-WMS | 881T-25R40M-WMS |
| 27 | 881T-27R20M-WMS | 881T-27R25M-WMS | 881T-27R30M-WMS | 881T-27R35M-WMS | 881T-27R40M-WMS |
| 29 | 881T-29R20M-WMS | 881T-29R25M-WMS | 881T-29R30M-WMS | 881T-29R35M-WMS | 881T-29R40M-WMS |

Material: polyamide (natural white); screws in stainless steel, bushings in brass.



Also available: split idler wheels, go to:

11050b

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11090c

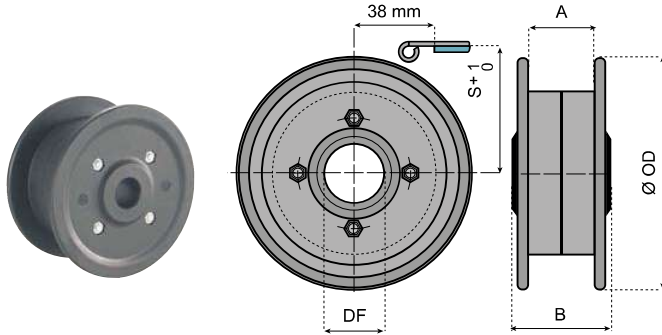
www.SystemPlastSmartGuide.com

IDLER WHEELS

FOR CHAINS 8810 - 881MO VG

Features:

- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



| MOLDED IDLER WHEELS - ONE PIECE FOR BEVEL CHAINS | | | | |
|--|--|------|------|------|
| A=44 / B=60 | | | | |
| Z | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
| ITEM DESCRIPTION | | | | |
| 19 | FOR THESE IDLER WHEELS GO TO: 11050a (MIN Z19 IS SUITABLE) | | | |
| 21 | | | | |
| 23 | | | | |
| 25 | | | | |

| Z | Ø OD mm | S mm |
|----|---------|------|
| 19 | 117,0 | 62,6 |
| 21 | 129,8 | 68,6 |
| 23 | 142,2 | 74,6 |
| 25 | 154,7 | 80,5 |



Material: reinforced polyamide (black); screws in stainless steel.
Application: chains series 8810.

See also the sprockets and idler wheels:

11090a



See also the chains:

8810

11080a

881 MO VG

11160a



Information about this product is only available on our Smart Guide® website.

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11090d

DRIVE SPROCKETS

www.SystemPlastSmartGuide.com

FOR CHAINS 812 - 815 (VG) - 881 (M-MO)



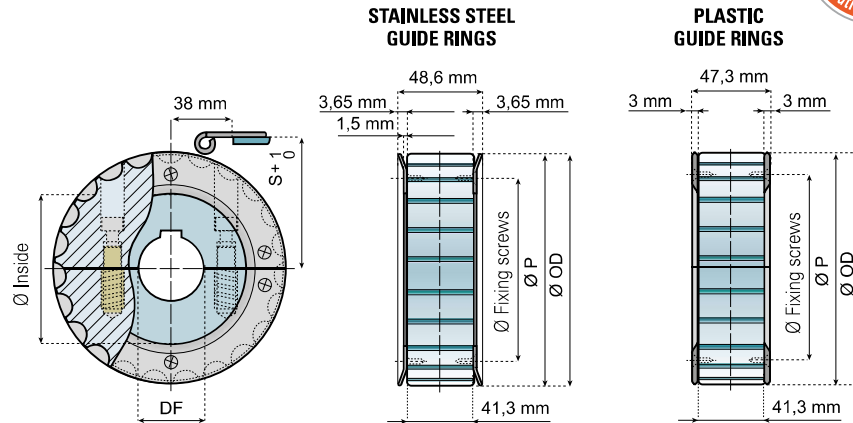
STAINLESS STEEL GUIDE RINGS

New design 30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.

| Z | Ø OD mm | Ø P mm | S mm |
|----|---------|--------|------|
| 21 | 129 | 129,26 | 67,8 |
| 23 | 142 | 141,21 | 73,8 |
| 25 | 154 | 153,21 | 79,8 |



| Z | MACHINED DRIVE SPROCKETS - SPLIT FIXED: STAINLESS STEEL GUIDE RINGS | | |
|----|--|--------------------|--------------------|
| | Ø 23* | Ø 30 | Ø 40 |
| | ITEM DESCRIPTION | | |
| 21 | 815-21R23M-RMS-FSS | 815-21R30M-DMS-FSS | 815-21R40M-DMS-FSS |
| 25 | 815-25R23M-RMS-FSS | 815-25R30M-DMS-FSS | 815-25R40M-DMS-FSS |

| LOOSE GUIDE RINGS: STAINLESS STEEL | | |
|---------------------------------------|----------|-----------------|
| | Ø INSIDE | Ø FIXING SCREWS |
| GRINGK-129-79-SS | 79 | 104 |
| GRINGK-154-104-SS | 104 | 128 |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat.
* Plain bore (without keyway)

Material: stainless steel, screws in stainless steel.
Supply: 4 segments and 12 screws



PLASTIC GUIDE RINGS

| Z | MACHINED DRIVE SPROCKETS - SPLIT FIXED: PLASTIC GUIDE RINGS | | |
|----|--|------------------|------------------|
| | Ø 23* | Ø 30 | Ø 40 |
| | ITEM DESCRIPTION | | |
| 21 | 815-21R23M-RMS-F | 815-21R30M-DMS-F | 815-21R40M-DMS-F |
| 23 | 815-23R23M-RMS-F | 815-23R30M-DMS-F | 815-23R40M-DMS-F |
| 25 | 815-25R23M-RMS-F | 815-25R30M-DMS-F | 815-25R40M-DMS-F |

| LOOSE GUIDE RINGS: PLASTIC | | |
|-------------------------------|----------|-----------------|
| BLACK | Ø INSIDE | Ø FIXING SCREWS |
| GRINGK-129-79-PAB | 79 | 104 |
| GRINGK-142-92-PAB | 92 | 116 |
| GRINGK-154-104-PAB | 104 | 128 |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat.
* Plain bore (without keyway)

Material: reinforced polyamide, screws in stainless steel.
Supply: 4 segments and 12 screws



See also the chains:



See also the sprockets and idler wheels:

812-815 11020a 11030a 11030b

881M - 881MO 11060a

11040a 11050a 11040b 11050b



Information about this product is only available on our Smart Guide® website.

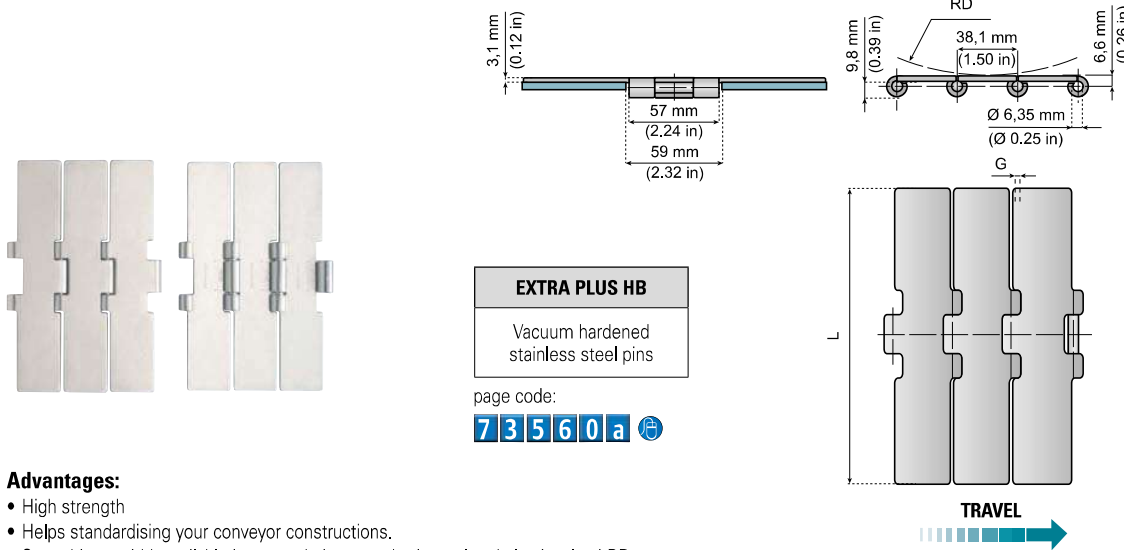
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11100a

8157

www.SystemPlastSmartGuide.com

STRAIGHT RUNNING CHAINS HEAVY DUTY SINGLE HINGE



EXTRA PLUS HB
Vacuum hardened stainless steel pins

page code:
73560a



Other versions 8157:

VG Rubber top



Advantages:

- High strength
- Helps standardising your conveyor constructions.
- Same hinge width available in many chain types, both steel and plastic; also LBP chains and rubber top chains.

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH μm | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|---------------|-------------------|------|----------------------|---------|-----|-----|------|-----|-----|--------|---------|
| | | N | lbs | | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE8157-K750 | Extra plus | 10400 | 2340 | 0,3 | 190,5 | 7 ½ | 1,8 | 0.07 | 150 | 5.9 | 5,6 | 3.8 |
| SSE8157-K750HB | Extra plus HB | | | | | | | | | | | |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

DRIVE SPROCKETS

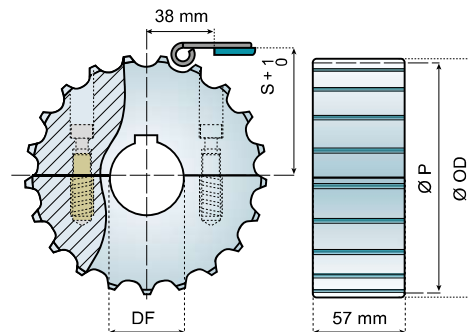
FOR CHAINS 8157 - 8857M - 8857M VG - 8157VG - 8157TAB VG



New design
30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



See also the chains:

8857 M
11110a

8857 M VG
11160a

8157VG
11180a

Information about this product is only available on our Smart Guide® website.



For machined sprockets with flanges, go to:

111100b



Also available: split idler wheels, go to:

111090b

| MACHINED DRIVE SPROCKETS - SPLIT FIXED | | |
|--|------------------------|------------------------|
| Z | Ø 30 | Ø 40 |
| | ITEM DESCRIPTION | |
| 17 | 8157-17R30M-DMS | 8157-17R40M-DMS |
| 19 | 8157-19R30M-DMS | 8157-19R40M-DMS |
| 21 | 8157-21R30M-DMS | 8157-21R40M-DMS |
| 23 | 8157-23R30M-DMS | 8157-23R40M-DMS |
| 25 | 8157-25R30M-DMS | 8157-25R40M-DMS |

| Z | Ø OD mm | Ø P mm | S mm |
|----|---------|--------|------|
| 17 | 103,9 | 105,47 | 55,9 |
| 19 | 117 | 117,34 | 61,9 |
| 21 | 129 | 129,26 | 67,8 |
| 23 | 142 | 141,21 | 73,8 |
| 25 | 154 | 153,21 | 79,8 |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat.

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11100b

www.SystemPlastSmartGuide.com

DRIVE SPROCKETS

FOR CHAINS 8157 - 8857M



STAINLESS STEEL GUIDE RINGS

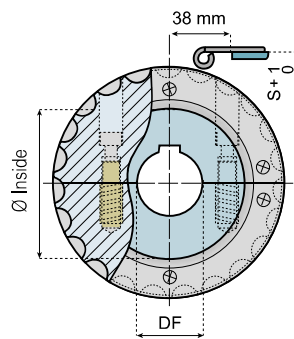
New design

30990a

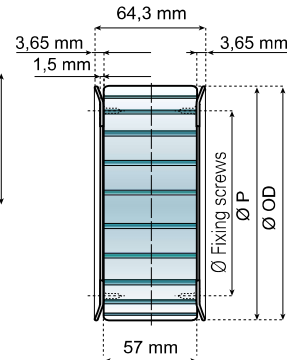
Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.

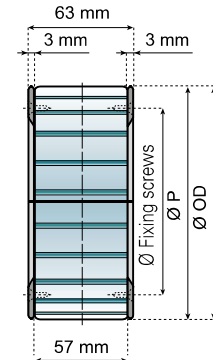
| Z | Ø OD mm | Ø P mm | S mm | Ø INSIDE | Ø FIXING SCREWS |
|----|---------|--------|------|----------|-----------------|
| 21 | 129 | 129,26 | 67,8 | 79 | 104 |
| 23 | 142 | 141,21 | 73,8 | 92 | 116 |
| 25 | 154 | 153,21 | 79,8 | 104 | 128 |



STAINLESS STEEL GUIDE RINGS



PLASTIC GUIDE RINGS



MACHINED DRIVE SPROCKETS - SPLIT FIXED: STAINLESS STEEL GUIDE RINGS

| Z | Ø 23* | Ø 30 | Ø 35 | Ø 40 |
|----|----------------------------|----------------------------|----------------------------|----------------------------|
| | ITEM DESCRIPTION | | | |
| 21 | 8157-21R23M-RMS-FSS | 8157-21R30M-DMS-FSS | 8157-21R35M-DMS-FSS | 8157-21R40M-DMS-FSS |
| 25 | 8157-25R23M-RMS-FSS | 8157-25R30M-DMS-FSS | 8157-25R35M-DMS-FSS | 8157-25R40M-DMS-FSS |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat.

* Plain bore (without keyway)



For stainless steel GUIDE RINGS, go to:

11090d



PLASTIC GUIDE RINGS



MACHINED DRIVE SPROCKETS - SPLIT FIXED: PLASTIC GUIDE RINGS

| Z | Ø 23* | Ø 30 | Ø 35 | Ø 40 |
|----|--------------------------|--------------------------|--------------------------|--------------------------|
| | ITEM DESCRIPTION | | | |
| 21 | 8157-21R23M-RMS-F | 8157-21R30M-DMS-F | 8157-21R35M-DMS-F | 8157-21R40M-DMS-F |
| 23 | 8157-23R23M-RMS-F | 8157-23R30M-DMS-F | 8157-23R35M-DMS-F | 8157-23R40M-DMS-F |
| 25 | 8157-25R23M-RMS-F | 8157-25R30M-DMS-F | 8157-25R35M-DMS-F | 8157-25R40M-DMS-F |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat.

* Plain bore (without keyway)



For plastic GUIDE RINGS, go to:

11090d



Also available: idler wheels, go to:

11090b



See also the chains:

8157
111100a

8857 M
111110a

8857 M VG
111160a



See also the sprockets and idler wheels:

111100a



Information about this product is only available on our Smart Guide® website.

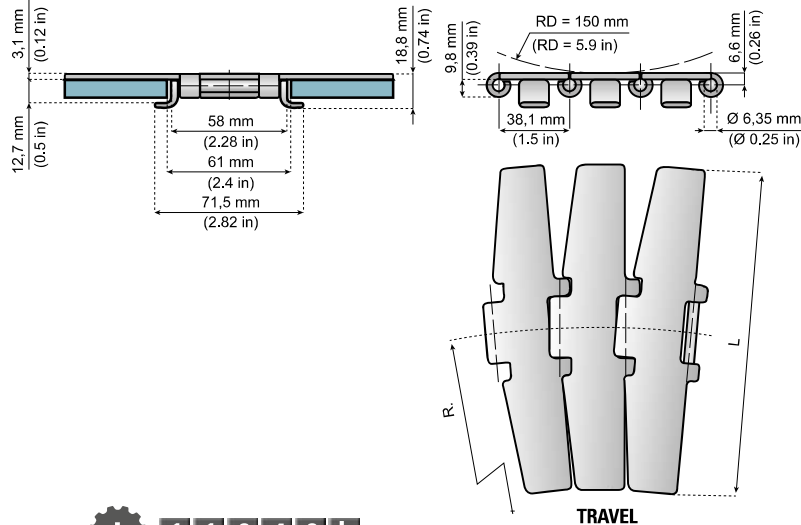
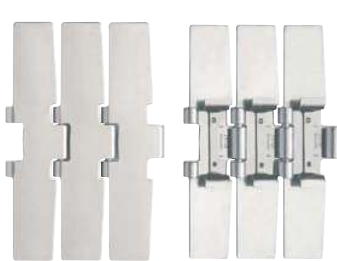
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
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| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11110a

www.SystemPlastSmartGuide.com

8857 TAB

SIDEFLEXING CHAINS HEAVY DUTY



EXTRA PLUS HB
Vacuum hardened stainless steel pins

page code:

73560a

11040b

Advantages:

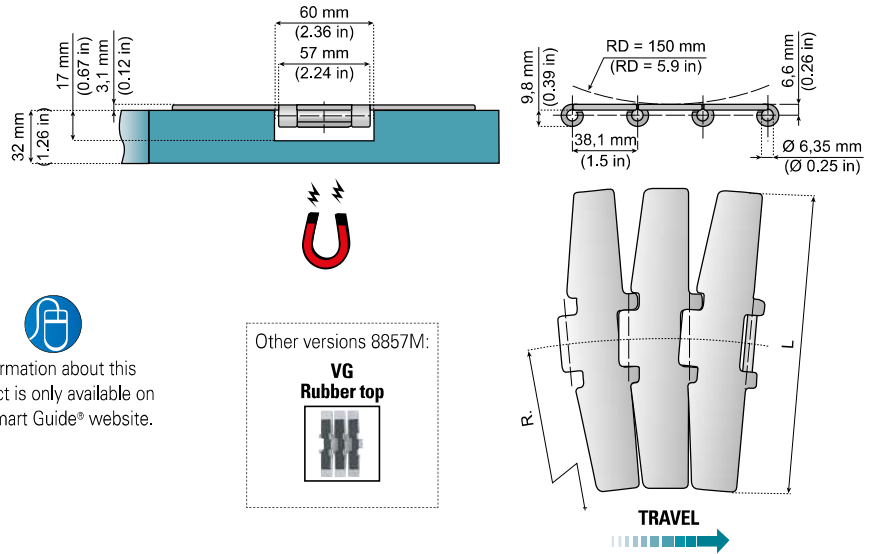
High strength

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH μm | WIDTH L | | R MIN. | | WEIGHT | |
|-------------------|---------------|-------------------|------|----------------------|---------|-----|--------|------|--------|---------|
| | | N | lbs | | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE8857TAB-K750HB | Extra plus HB | 10400 | 2340 | 0,3 | 190,5 | 7 ½ | 750 | 29,5 | 6,1 | 4.1 |

Standard length: 80 pitches (10 ft. - 3,048 m)

8857M

SIDEFLEXING CHAINS FOR MAGNETIC SYSTEM HEAVY DUTY



EXTRA PLUS HB
Vacuum hardened stainless steel pins

page code:

73560a

Information about this product is only available on our Smart Guide® website.

Other versions 8857M:
VG Rubber top

Advantages:

- All advantages of the magnetic system.
- High strength.
- Helps standardising your conveyor constructions.
- Same hinge width available in many chain types, both steel and plastic; also LBP chains and rubber top chains.

111100a

50060a

| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH μm | WIDTH L | | R MIN. | | WEIGHT | |
|------------------|---------------|-------------------|------|----------------------|---------|-----|--------|------|--------|---------|
| | | N | lbs | | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE8857M-K750 | Extra plus | 10400 | 2340 | 0,3 | 190,5 | 7 ½ | 750 | 29,5 | 5,3 | 3.6 |
| SSE8857M-K750HB | Extra plus HB | | | | | | | | | |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

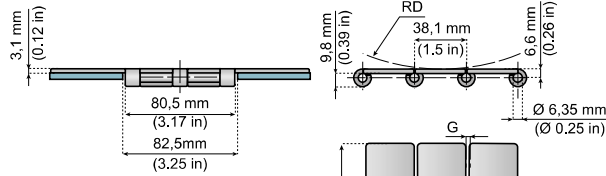
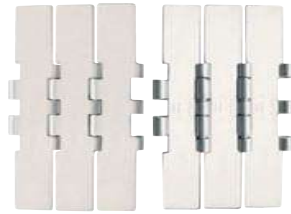
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11120a

802 - 805

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STRAIGHT RUNNING CHAINS DOUBLE HINGE

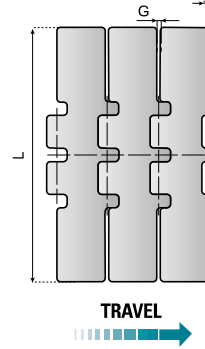


EXTRA PLUS HB
Vacuum hardened stainless steel pins

Hardened carbon steel
Austenitic stainless steel:
11030b

page code:
73560a

MOQ Min. order quantity: 18 m.



Other versions 805:
VG Rubber top



Information about this product is only available on our Smart Guide® website.

- Advantages:**
- Very high strength.
 - For heavy duty applications.

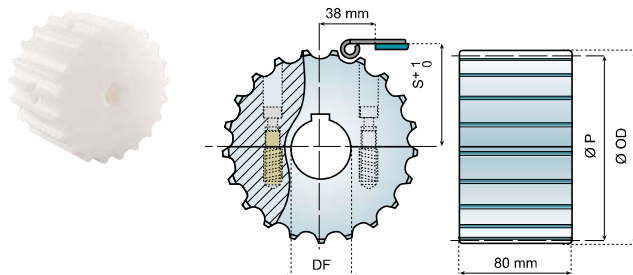
| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH μm | WIDTH L | | G | | RD | | WEIGHT | |
|----------------------------------|---------------|-------------------|------|----------------------|---------|-----|-----|------|-----|-----|--------|---------|
| | | N | lbs | | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SS802-K750 | STANDARD | 10300 | 2620 | 0,6 | 190,5 | 7 ½ | 1,8 | 0.07 | 150 | 5.9 | 5,8 | 3.9 |
| SR800-K750 ^{MOQ} | C45 | 28000 | 6300 | not applicable | 190,5 | 7 ½ | 2,8 | 0.11 | 75 | 2.9 | 5,7 | 3.8 |
| SSA805-K750 | Austenitic | 9600 | 2160 | 0,3 | | | 1,8 | 0.07 | 150 | 5.9 | 5,8 | 3.9 |
| SSE805-K750 | Extra plus | 15000 | 3370 | 0,3 | | | 1,8 | 0.07 | 150 | 5.9 | 5,8 | 3.9 |
| SSER805-K750 | | 15000 | 3370 | 0,3 | | | 2,8 | 0.11 | 75 | 2.9 | 5,7 | 3.8 |
| SSE805-K750HB | Extra plus HB | 15000 | 3370 | 0,3 | | | 1,8 | 0.07 | 150 | 5.9 | 5,8 | 3.9 |

Standard length: 80 pitches (3,048 m - 10 ft.)

Breaking load according to standard ISO 4348 - DIN 8153

DRIVE AND RETURN SPROCKETS

800 - 802 - 805(VG) - 821



New design
30990a

- Features:**
- Very high strength.
 - Split versions: quick and easy replacement.
 - Foolproof design.
 - Completely closed structure, easy to clean and to disinfect.
 - Excellent wear and chemical resistance.
 - Recyclable.

For chains 821:
11320a



For machined sprockets with flanges, go to:

11120b

| MACHINED DRIVE SPROCKETS - SPLIT FIXED | | | | | |
|--|-------|------------------|----------------|----------------|----------------|
| Z | Ø 23* | Ø 25 | Ø 30 | Ø 35 | Ø 40 |
| | | ITEM DESCRIPTION | | | |
| 19 | - | 800-19R25M-DMS | 800-19R30M-DMS | 800-19R35M-DMS | 800-19R40M-DMS |
| 21 | - | 800-21R25M-DMS | 800-21R30M-DMS | 800-21R35M-DMS | 800-21R40M-DMS |
| 23 | - | 800-23R25M-DMS | 800-23R30M-DMS | 800-23R35M-DMS | 800-23R40M-DMS |
| 25 | - | 800-25R25M-DMS | 800-25R30M-DMS | 800-25R35M-DMS | 800-25R40M-DMS |

| MACHINED RETURN SPROCKETS - SPLIT | | | | | |
|-----------------------------------|---------|--------|------|----------------|----------------|
| Z | Ø OD mm | Ø P mm | S mm | | |
| 19 | 117 | 117,3 | 62,4 | 800-19R23M-RMS | 800-19R25M-RMS |
| 21 | 129 | 129,26 | 68,2 | 800-21R23M-RMS | 800-21R25M-RMS |
| 23 | 142 | 141,22 | 74,2 | 800-23R23M-RMS | 800-23R25M-RMS |
| 25 | 154 | 153,2 | 80,2 | 800-25R23M-RMS | 800-25R25M-RMS |

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat. * Plain bore

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11120b

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DRIVE SPROCKETS

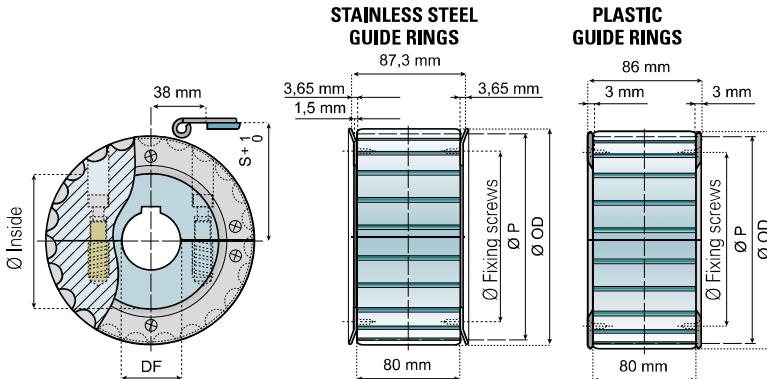
FOR CHAINS 800 - 802 - 805 (VG)

New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



| Z | Ø OD mm | Ø P mm | S mm | Ø INSIDE | Ø FIXING SCREWS |
|----|---------|--------|------|----------|-----------------|
| 21 | 129 | 129,26 | 68,2 | 79 | 104 |
| 23 | 142 | 141,22 | 74,2 | 92 | 116 |
| 25 | 154 | 153,2 | 80,2 | 104 | 128 |



Information about this product is only available on our Smart Guide® website.

See also the chains:



11120a

See also the sprockets:



11120a

| Z | Ø 23* | Ø 30 | Ø 35 | Ø 40 |
|----|--------------------|--------------------|--------------------|--------------------|
| | ITEM DESCRIPTION | | | |
| 21 | 800-21R23M-RMS-FSS | 800-21R30M-DMS-FSS | 800-21R35M-DMS-FSS | 800-21R40M-DMS-FSS |
| 25 | 800-25R23M-RMS-FSS | 800-25R30M-DMS-FSS | 800-25R35M-DMS-FSS | 800-25R40M-DMS-FSS |



| Z | Ø 23* | Ø 30 | Ø 35 | Ø 40 |
|----|------------------|------------------|------------------|------------------|
| | ITEM DESCRIPTION | | | |
| 21 | 800-21R23M-RMS-F | 800-21R30M-DMS-F | 800-21R35M-DMS-F | 800-21R40M-DMS-F |
| 23 | 800-23R23M-RMS-F | 800-23R30M-DMS-F | 800-23R35M-DMS-F | 800-23R40M-DMS-F |
| 25 | 800-25R23M-RMS-F | 800-25R30M-DMS-F | 800-25R35M-DMS-F | 800-25R40M-DMS-F |



Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat. * Plain bore (without keyway)

IDLER WHEELS

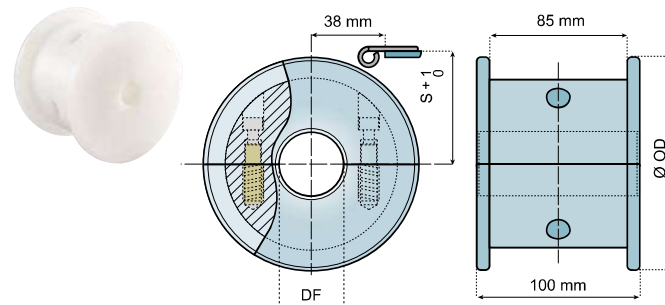
FOR CHAINS 800 - 802 - 805 - 805VG

New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.



See also the chains:



11120a

See also the sprockets:



11120a

| Z | Ø 30 | Ø 35 | Ø 40 |
|----|------------------|----------------|----------------|
| | ITEM DESCRIPTION | | |
| 19 | 800-19R30M-WMS | 800-19R35M-WMS | 800-19R40M-WMS |
| 21 | 800-21R30M-WMS | 800-21R35M-WMS | 800-21R40M-WMS |
| 23 | 800-23R30M-WMS | 800-23R35M-WMS | 800-23R40M-WMS |
| 25 | 800-25R30M-WMS | 800-25R35M-WMS | 800-25R40M-WMS |

| Z | Ø OD mm | S mm |
|----|---------|------|
| 19 | 117 | 62,6 |
| 21 | 129,8 | 68,6 |
| 23 | 142,2 | 74,6 |
| 25 | 154,7 | 80,5 |

Material: polyamide (natural white); screws in stainless steel, bushings in brass.

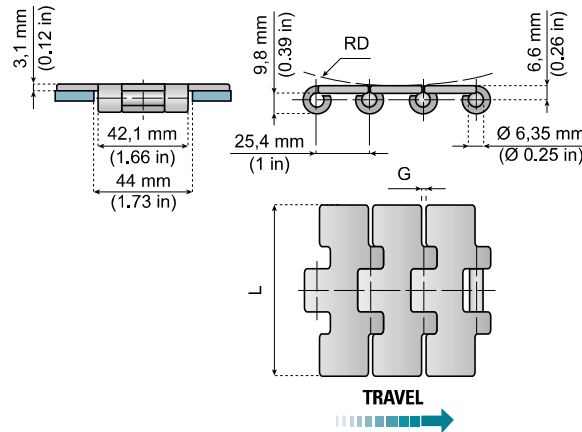
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11130a

515

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STRAIGHT RUNNING CHAINS SINGLE HINGE (PITCH 1" - 25,4 mm)



Advantages:

- Small pitch offering short product transfers.

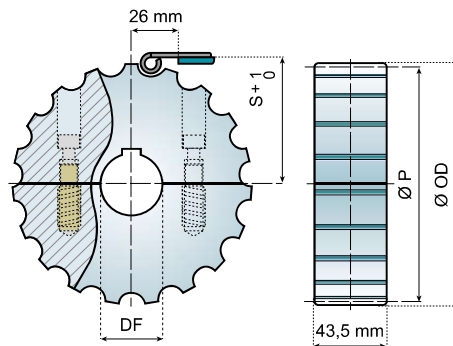
| ITEM DESCRIPTION | MATERIAL | MAX. WORKING LOAD | | FINISH μm | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|----------|-------------------|------|----------------------|---------|---------|-----|------|-----|-----|--------|---------|
| | | N | lbs | | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE515-K217 | EXTRA | 5,200 | 1170 | 0,3 | 55,0 | 2 11/64 | 1,6 | 0,06 | 100 | 3,9 | 2,3 | 1,5 |
| SSE515-K236 | | | | | 60,0 | 2 27/64 | | | | | 2,4 | 1,6 |
| SSE515-K283 | | | | | 72,0 | 2 27/32 | | | | | 2,7 | 1,8 |
| SSE515-K325 | | | | | 82,5 | 3 1/4 | | | | | 2,9 | 2,0 |
| SSE515-K350 | | | | | 88,9 | 3 1/2 | | | | | 3,0 | 2,0 |
| SSE515-K400 | | | | | 101,6 | 4 | | | | | 3,3 | 2,2 |

Standard length: 120 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

DRIVE AND RETURN SPROCKETS

FOR CHAINS 515



| MACHINED DRIVE SPROCKETS - SPLIT FIXED | | | |
|--|-------|------------------|----------------|
| Z | Ø 23* | Ø 30 | Ø 40 |
| | | ITEM DESCRIPTION | |
| 13 | - | 515-13R30M-DMS | 515-13R40M-DMS |
| 15 | - | 515-15R30M-DMS | 515-15R40M-DMS |
| 18 | - | 515-18R30M-DMS | 515-18R40M-DMS |
| 19 | - | 515-19R30M-DMS | 515-19R40M-DMS |
| 21 | - | 515-21R30M-DMS | 515-21R40M-DMS |

| MACHINED RETURN SPROCKETS - SPLIT | | | |
|-----------------------------------|---------|--------|------|
| Z | Ø OD mm | Ø P mm | S mm |
| 13 | 106,1 | 108,0 | 57,2 |
| 15 | 122,2 | 124,0 | 65,2 |
| 18 | 146,4 | 146,3 | 76,4 |
| 19 | 155,7 | 154,3 | 80,4 |
| 21 | 173,0 | 170,4 | 88,4 |

New design

30990a

Features:

- Very high strength.
- Split versions: quick and easy replacement.
- Foolproof design.
- Completely closed structure, easy to clean and to disinfect.
- Excellent wear and chemical resistance.
- Recyclable.

Material: polyamide (natural white); screws in stainless steel, bushings in brass, DIN 6885 key seat, *Plain bore

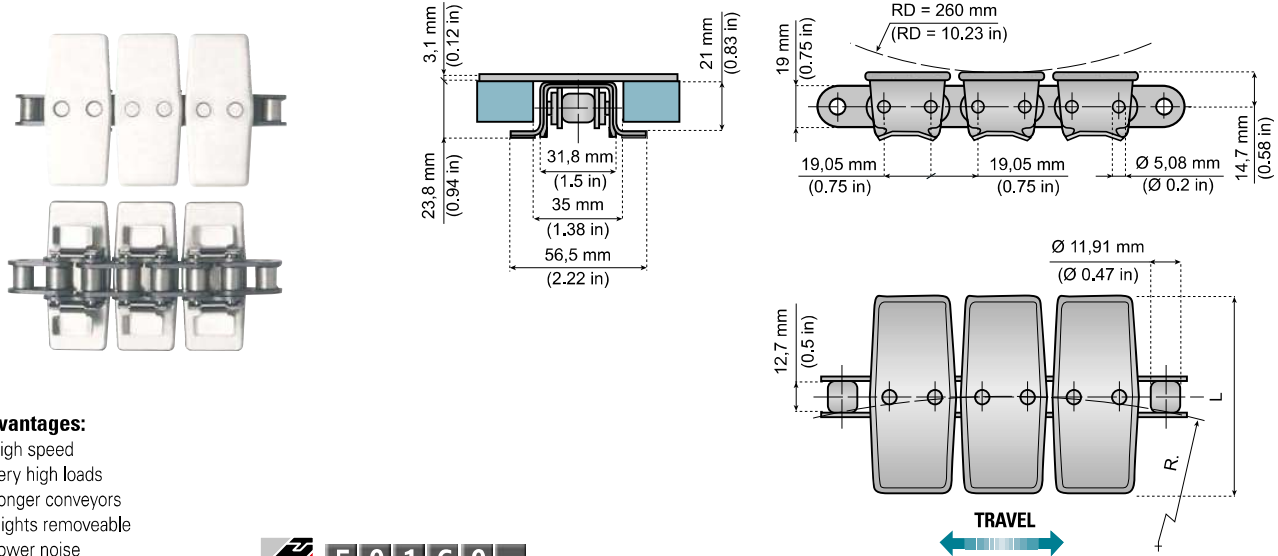
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11140a

1874

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SIDEFLEXING PLATE TOP CHAINS WITH BASE ROLLER CHAINS (PITCH ¾" - 19,05 mm)



Advantages:

- High speed
- Very high loads
- Longer conveyors
- Flights removeable
- Lower noise
- No chain elongation

50160a

| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | FINISH µm | WIDTH L | | R MIN. | | WEIGHT | |
|------------------------|----------|--------------|-------------------|------|--------------|---------|-----|--------|----|--------|---------|
| | PLATE | ROLLER CHAIN | N | lbs | | mm | in | mm | in | Kg/m | lbs/ft. |
| 1874TAB-K325 | C45 | C45 | 27000 | 6080 | 0,6 | 82,5 | 3 ¼ | 380 | 15 | 4,2 | 2.8 |
| 1874SS-TAB-K325 | EXTRA | Austenitic | 21000 | 4730 | | | | | | | |
| 1874A-TAB-K325 | | C45 | 27000 | 6080 | | | | | | | |

Standard length: 160 pitches (10 ft. - 3,048 m) - 80 Flights

Breaking load according to standard ISO 4348 - DIN 8153

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11150a

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815 VG - 815 VG TAB

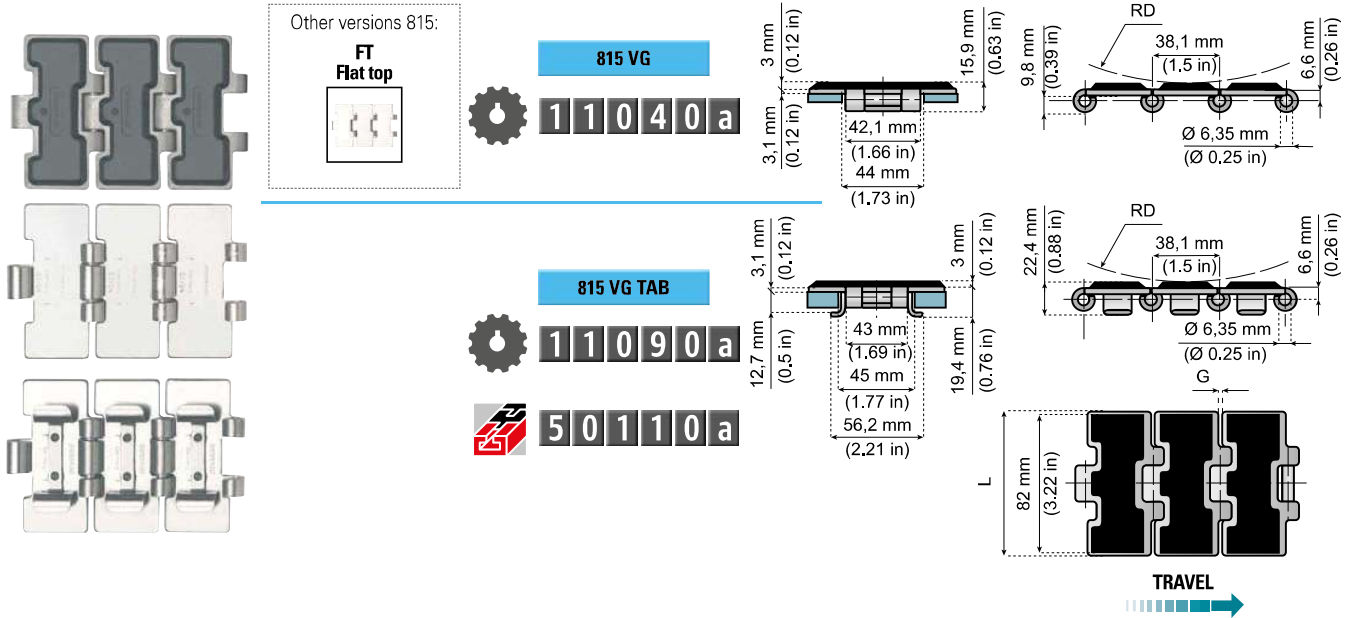
STRAIGHT RUNNING CHAINS WITH HIGH FRICTION SURFACE



Characteristics:

Flat top chains with vulcanized NBR rubber.

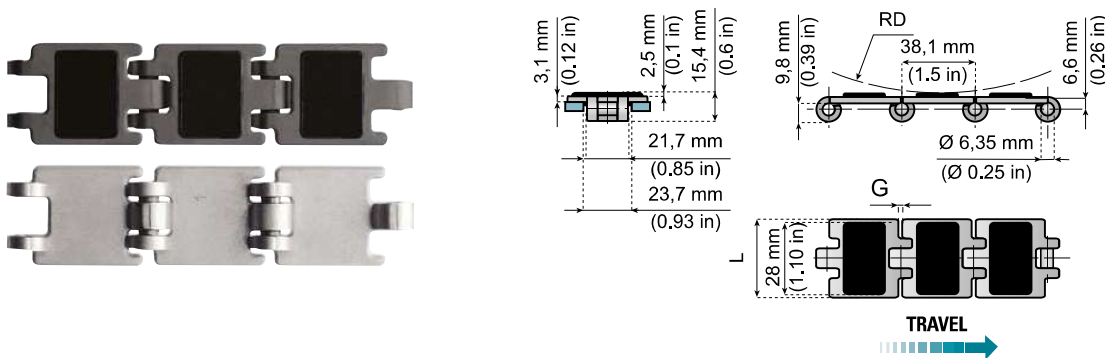
Tabs reduce friction on the return section of the conveyor.



| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | WIDTH L | | G | | RD | | WEIGHT | |
|---------------------|---------------|------------------------|-------------------|------|---------|-----|-----|------|----|-----|--------|---------|
| | CHAIN | RUBBER | N | lbs | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSER815-K325HBVG | Extra plus HB | NBR - black 70 shore A | 6000 | 1350 | 82,5 | 3 ¼ | 2,8 | 0.11 | 75 | 2.9 | 2,8 | 1.9 |
| SSER815TAB-K325HBVG | | | | | | | | | | | 3,4 | 2.3 |

814 VG

STRAIGHT RUNNING CHAINS WITH HIGH FRICTION SURFACE



Characteristics:

Flat top chains with vulcanized NBR rubber.

Information about this product is only available on our Smart Guide® website.

| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|------------|------------------------|-------------------|-----|---------|-----|-----|------|----|-----|--------|---------|
| | CHAIN | RUBBER | N | lbs | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSER814-K125VG | Extra plus | NBR - black 70 shore A | 4000 | 900 | 31,8 | 1 ¼ | 2,8 | 0.11 | 75 | 2.9 | 1,2 | 0.8 |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

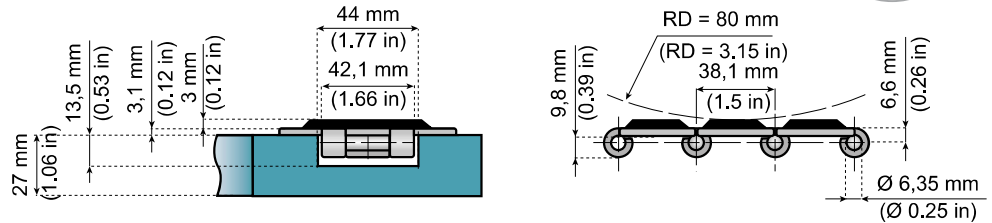
| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

11160a

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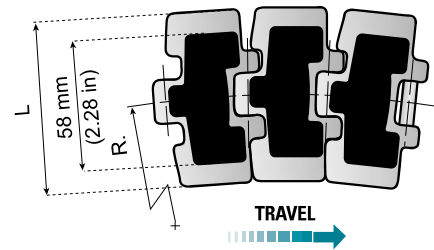
881 MO VG

SIDEFLEXING CHAINS WITH HIGH FRICTION SURFACE FOR MAGNETIC CURVES



Other versions 881MO:

FT Flat top



Characteristics:

Sideflexing chains with vulcanized NBR rubber.

All advantages of the magnetic system.

High strength.

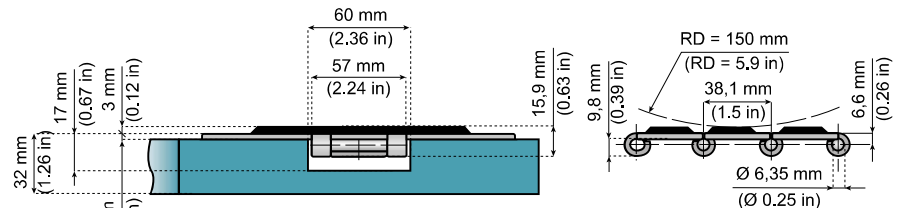
11090a

50010a

| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | WIDTH L | | R MIN. | | WEIGHT | |
|------------------|------------|------------------------|-------------------|------|---------|-----|--------|------|--------|---------|
| | CHAIN | RUBBER | N | lbs | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE881MO-K325VG | Extra plus | NBR - black 70 shore A | 6000 | 1350 | 82,5 | 3 ¼ | 500 | 19.7 | 2,6 | 1.7 |

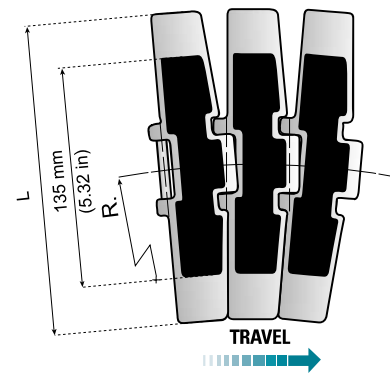
8857 M VG

SIDEFLEXING CHAINS WITH HIGH FRICTION SURFACE FOR MAGNETIC CURVES



Other versions 8857M:

FT Flat top



Characteristics:

Sideflexing chains with vulcanized NBR rubber.

Advantages:

- All advantages of the magnetic system.
- High strength.
- Helps standardising your conveyor constructions.
- Same hinge width available in many chain types, both steel and plastic, also LBP chains and flat top chains.



Information about this product is only available on our Smart Guide® website.

EXTRA PLUS HB

Vacuum hardened stainless steel pins

page code: **73560a**

50060a

11100a

| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | WIDTH L | | R MIN. | | WEIGHT | |
|-------------------|---------------|------------------------|-------------------|------|---------|-----|--------|------|--------|---------|
| | CHAIN | RUBBER | N | lbs | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE8857M-K750HBVG | Extra plus HB | NBR - black 70 shore A | 10400 | 2340 | 190,5 | 7 ½ | 750 | 29.5 | 5,7 | 3.8 |

Standard length: 80 pitches (10 ft. - 3,048 m)

Breaking load according to standard ISO 4348 - DIN 8153

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets | Wear strips | Side guide brackets & accessories | Levelers | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports | Bearing supports | |
| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |

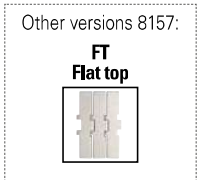
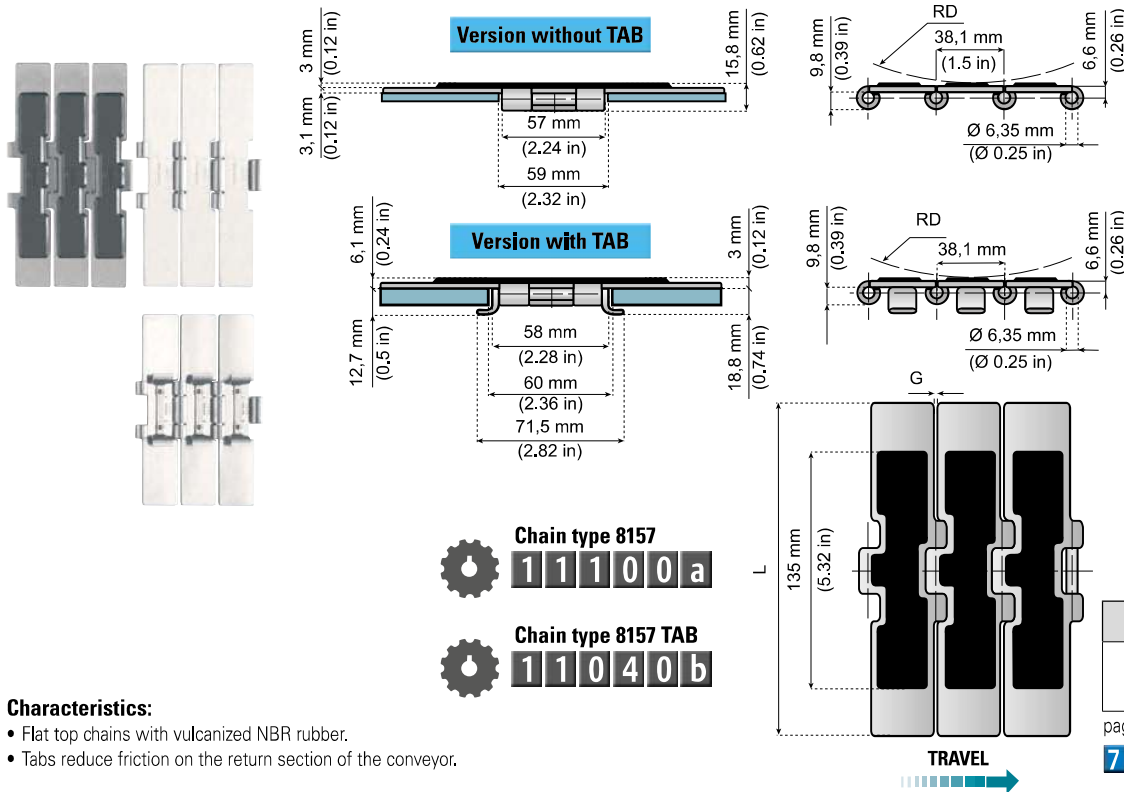


11180a

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8157 VG - 8157 TAB VG

STRAIGHT RUNNING CHAINS WITH HIGH FRICTION SURFACE



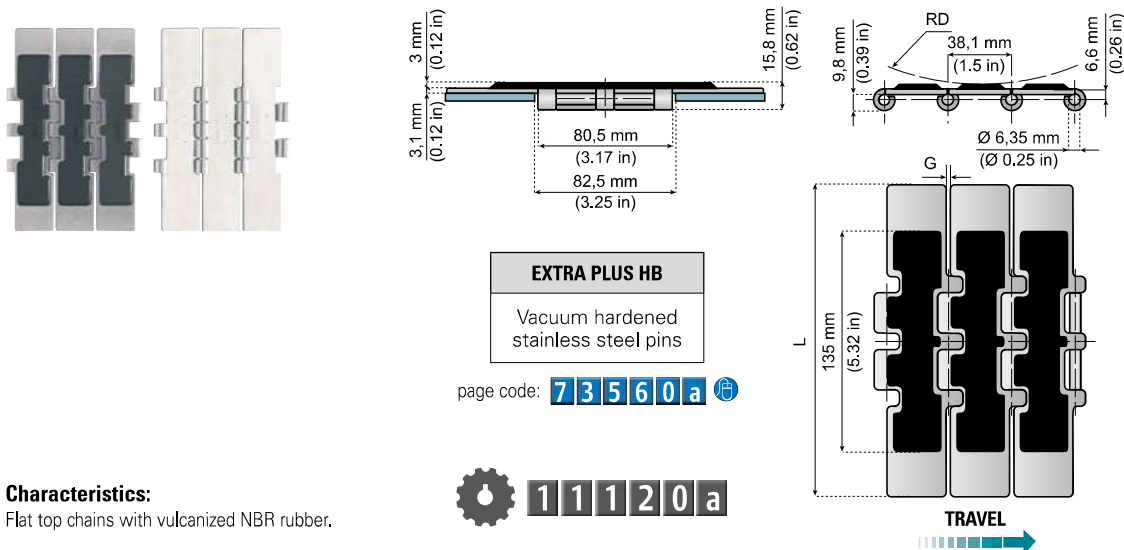
Characteristics:

- Flat top chains with vulcanized NBR rubber.
- Tabs reduce friction on the return section of the conveyor.

| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | WIDTH L | | G | | RD | | WEIGHT | |
|---------------------|---------------|------------------------|-------------------|------|---------|-----|-----|------|-----|-----|--------|---------|
| | CHAIN | RUBBER | N | lbs | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE8157-K750HBVG | Extra plus HB | NBR - black 70 shore A | 10400 | 2340 | 190,5 | 7 ½ | 1,8 | 0,07 | 150 | 5,9 | 6,0 | 4,0 |
| SSE8157TAB-K750HBVG | | | | | | | | | | | 7,5 | 5,0 |

805 VG

STRAIGHT RUNNING CHAINS WITH HIGH FRICTION SURFACE



Characteristics:

Flat top chains with vulcanized NBR rubber.

| ITEM DESCRIPTION | MATERIAL | | MAX. WORKING LOAD | | WIDTH L | | G | | RD | | WEIGHT | |
|------------------|---------------|------------------------|-------------------|------|---------|-----|-----|------|-----|-----|--------|---------|
| | CHAIN | RUBBER | N | lbs | mm | in | mm | in | mm | in | Kg/m | lbs/ft. |
| SSE805-K750HBVG | Extra plus HB | NBR - black 70 shore A | 15000 | 3370 | 190,5 | 7 ½ | 1,8 | 0,07 | 150 | 5,9 | 6,2 | 4,2 |

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
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| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |



continue ▶

Bearing mounting.
Go to:

7 3 0 5 2 a

SHAFT SIZE:

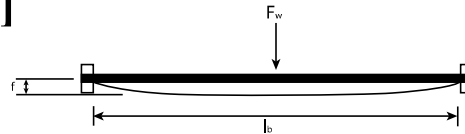
THE SHAFT MUST FULFILL THE FOLLOWING CONDITIONS:

- Maximum shaft deflection F_{max} under full load (F_w) is 2,5 mm (0.10 in). If the calculated shaft deflection exceeds this max value, select a bigger shaft size or install an intermediate supported bearing on the shaft.
- Torque (**Ts**) at maximum load must be below critical value;
Shaft maximum deflection under concentrated load applied in the center can be calculated with following formula:

2 BEARINGS

$$f = \frac{5}{384} * F_w \frac{l_b^3}{E * I} \text{ [mm]: } F_w \text{ [N], } l_b \text{ [mm], } I \text{ [mm}^4\text{], } E \left[\frac{\text{N}}{\text{mm}^2} \right]$$

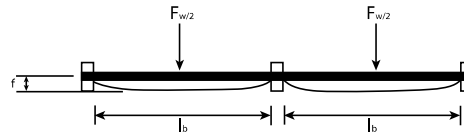
$$f = \frac{5}{384} * F_w \frac{l_b^3}{E * I} \text{ [in]: } F_w \text{ [lb], } l_b \text{ [in], } I \text{ [in}^4\text{], } E \left[\frac{\text{lb}}{\text{in}^2} \right]$$



3 BEARINGS

$$f = \frac{1}{370} * F_w \frac{l_b^3}{E * I} \text{ [mm]: } F_w \text{ [N], } l_b \text{ [mm], } I \text{ [mm}^4\text{], } E \left[\frac{\text{N}}{\text{mm}^2} \right]$$

$$f = \frac{1}{370} * F_w \frac{l_b^3}{E * I} \text{ [in]: } F_w \text{ [lb], } l_b \text{ [in], } I \text{ [in}^4\text{], } E \left[\frac{\text{lb}}{\text{in}^2} \right]$$



For uni-directional head drive $F_w = T$,

For bi-directional center drive $F_w = 2 * T$,

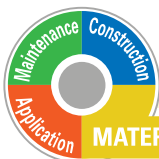
For uni-directional pusher drives $F_w = 2.2 * T$,

For modulus of elasticity (E) use: 200,000 N/mm² or 28,500,000 lb/in². Values are for carbon steel (C50) or stainless steel AISI 304/316. Modulus of elasticity for other materials can be referenced via industry standards.

| MOMENT OF INERTIA FOR SOLID SHAFTS (I) | | | |
|--|-----|-----------------|-----------------|
| SHAFT SIZE | | INERTIA | |
| mm | in. | mm ⁴ | in ⁴ |
| SQUARE SHAFTS | | | |
| 25 | - | 32552 | - |
| 40 | - | 213333 | - |
| 60 | - | 1080000 | - |
| 90 | - | 5467500 | - |

Moment of inertia can be calculated for all shaft diameter and shape. It's a geometrical property of the shaft.

| MOMENT OF INERTIA FOR SOLID SHAFTS (I) | | | |
|--|--------|-----------------|-----------------|
| SHAFT SIZE | | INERTIA | |
| mm | in. | mm ⁴ | in ⁴ |
| ROUND SHAFTS | | | |
| 20 | - | 7850 | - |
| 25 | - | 19150 | - |
| 30 | - | 39750 | - |
| 35 | - | 73650 | - |
| 40 | - | 125600 | - |
| 45 | - | 201200 | - |
| 50 | - | 306650 | - |
| 55 | - | 449000 | - |
| 60 | - | 635850 | - |
| 80 | - | 2009600 | - |
| 90 | - | 3220000 | - |
| - | 1 | - | 0.049 |
| - | 1.1875 | - | 0.098 |
| - | 1.25 | - | 0.120 |
| - | 1.4375 | - | 0.210 |
| - | 1.5 | - | 0.248 |



continue ▶

7 3 5 4 2 a Bearing selection

7 3 5 2 2 a Pressure of accumulation products

7 3 5 2 8 a 2500RR calculations

7 3 5 1 5 a Product handling

7 3 5 2 4 a 90° product transfer with belts

7 3 5 3 3 a 2253RTC calculations

7 3 5 1 9 a Product handling maximum acceleration

7 3 5 2 6 a Thermal expansion

7 3 5 7 8 a Coefficient of friction of standard materials

| | | | | |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
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| Curves & tracks | Side guide solutions | Miscellaneous products | Equipment | |



◀ back continue ▶

Bearing mounting.
Go to:
7 3 0 5 2 a

BEARING CALCULATIONS FOR SERIES UC AND UF:

STATIC LOAD CALCULATION:

In case the bearing is loaded without rotating, very slowly rotating or is making a slow oscillating movement, the bearing power is not determined by the fatigue life of the material but by the deformation of the rollers and the groove. This calculation is also valid if at a fraction of the rotation a shock load is present.

$$P_0 = X_0 * F_r + Y_0 * F_a = 0.6 * F_r + 0.5 * F_a$$

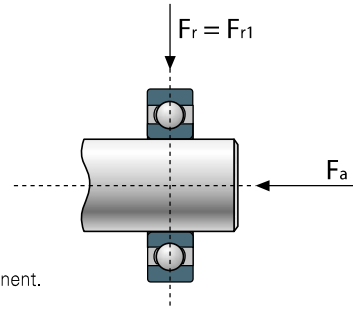
P_0 equivalent static load [N];

X_0 radial static factor;

F_r radial load [N];

Y_0 axial static factor;

F_a axial load [N];



P_0 is calculated when there is not only a radial component in the load but also an axial component.

When the load on the bearing is strictly radial the equivalent static load $P_0 = F_r$.

The minimum static load coefficient C_0 is calculated while taking into account the static safety factor S_0 .

Then in the bearing tables the right size bearing can be found checking the C_a .

$$C_0 = S_0 * P_0$$

C_0 static load coefficient in [N]

S_0 static safety factor;

$S_0 = 1$ for normal circumstances,

= 1.5 when vibrations are involved and

= 2 - 2.5 for noiseless applications.

DYNAMIC LOAD CALCULATION:

For normal circumstances, the dynamic load coefficient is calculated and compared to the equivalent dynamic load to determine the theoretical service life of the bearing. The calculated service life is then compared to the standard for the application and industry.

$$L_{10} = \left(\frac{C}{P} \right)^3$$

L_{10} = nominal life time in millions of revolutions
 C = dynamic load coefficient in [N]
 P = equivalent dynamic load [N]

When bearings run at constant speed, their life can be determined in working hours:

$$L_{10h} = \frac{1.000.000}{60n} * \left(\frac{C}{P} \right)^3$$

L_{10h} = life in hours.
 n = speed [rpm].

When the load on the bearing is strictly radial the equivalent dynamic load $P = F_r$.

When there's also an axial load involved the equivalent dynamic load is:

$$P = X * F_r + Y * F_a$$



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BEARING AND SHAFT

BEARING



X radial dynamic factor;

Y axial dynamic factor;

The axial force only influences the equivalent dynamic load when $F_a / F_r > E$

◀ back continue ▶

| CALCULATION FACTORS | | | | | |
|---------------------|------|-----------------|---|-----------------|-----|
| F_a / C_0 | E | $F_a / F_r < E$ | | $F_a / F_r > E$ | |
| | | X | Y | X | Y |
| 0.025 | 0.22 | 1 | 0 | 0.56 | 2 |
| 0.04 | 0.24 | 1 | 0 | 0.56 | 1.8 |
| 0.07 | 0.27 | 1 | 0 | 0.56 | 1.6 |
| 0.13 | 0.31 | 1 | 0 | 0.56 | 1.4 |
| 0.25 | 0.37 | 1 | 0 | 0.56 | 1.2 |
| 0.5 | 0.44 | 1 | 0 | 0.56 | 1 |

Bearing mounting.
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THE AXIAL LOAD SHOULD NEVER EXCEED 20% OF THE DYNAMIC LOAD COEFFICIENT (C).

INDICATIVE SPEED FOR SHAFT TOLERANCES:

| SHAFT DIAMETER | | SHAFT TOLERANCES | | | | |
|-----------------------------------|---------|------------------|------|------|------|-----|
| | | h6 | h7 | h8 | h9 | h11 |
| Limiting speeds - Shaft tolerance | | | | | | |
| mm | in. | RPM | | | | |
| Ø12 | - | 9500 | 6000 | 4300 | 1500 | 950 |
| Ø15 | - | 9500 | 6000 | 4300 | 1500 | 950 |
| Ø16 | - | 9500 | 6000 | 4300 | 1500 | 950 |
| Ø17 | - | 9500 | 6000 | 4300 | 1500 | 950 |
| Ø20 | - | 8500 | 5300 | 3800 | 1300 | 850 |
| Ø25 | - | 7000 | 4500 | 3200 | 1000 | 700 |
| Ø30 | - | 6300 | 4000 | 2800 | 900 | 630 |
| Ø35 | - | 5300 | 3400 | 2200 | 750 | 530 |
| Ø40 | - | 4800 | 3000 | 1900 | 670 | 480 |
| - | Ø1 | 7000 | 4500 | 3200 | 1000 | 700 |
| - | Ø1 3/16 | 6300 | 4000 | 2800 | 900 | 630 |
| - | Ø1 1/4 | 5600 | 3600 | 2500 | 800 | 550 |
| - | Ø1 7/16 | 5300 | 3400 | 2200 | 750 | 530 |
| - | Ø1 1/2 | 5000 | 3100 | 2000 | 700 | 500 |



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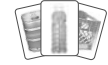
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MAXIMUM RADIAL LOAD CAPACITY OF HOUSING:

Values indicated in the table below, are obtained at 23°C. Value indicated: N, Values of polyamide version (values of polypropylene version in brackets). For further information please consult System Plast® SmartGuide® pages regarding bearing type you are interested in,

| Series SQL ø mm | | | | |
|--------------------|------|-----|------|-----|
| 12-15-16-17 | 6500 | (-) | 6000 | (-) |
| 20 | 5800 | (-) | 5300 | (-) |

| Series UCFL/UCFL-R ø mm | | | | |
|----------------------------|------|-----|------|-----|
| 12-15-16-17 | 6500 | (-) | 7000 | (-) |
| 20 | 7000 | (-) | 7500 | (-) |
| 25 | 7500 | (-) | 8000 | (-) |
| 30 | 8000 | (-) | 8800 | (-) |
| 35 | 8500 | (-) | 9000 | (-) |

| Series UCFL/UCFL-W ø mm | | | | |
|----------------------------|-------|--------|-------|--------|
| 20 | 6900 | (3200) | 7500 | (3500) |
| 25 | 6750 | (2950) | 7200 | (3000) |
| 30 | 12000 | (5800) | 13000 | (6000) |
| 35 | 11000 | (5300) | 12800 | (6000) |
| 40 | 10800 | (5100) | 12850 | (5800) |

| Series UCFL/UCFL-R ø mm | | | | |
|----------------------------|-------|-----|-------|-----|
| 12-15-16-17 | 12000 | (-) | 12000 | (-) |
| 20 | 12500 | (-) | 11500 | (-) |
| 25 | 12500 | (-) | 11500 | (-) |
| 30 | 12800 | (-) | 11000 | (-) |
| 35 | 12300 | (-) | 10500 | (-) |
| 40 | 12000 | (-) | 10000 | (-) |

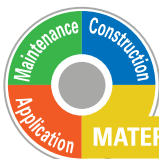
| Series UCFL/UCFL-R ø mm | | | | | | |
|----------------------------|-------|--------|------|--------|------|--------|
| 20 | 6500 | (3000) | 2000 | (1000) | 4000 | (1600) |
| 25 | 7800 | (3200) | 2500 | (1400) | 4800 | (1800) |
| 30 | 11000 | (4000) | 2900 | (1500) | 5700 | (2000) |

| Series UCFL/UCFL-R ø mm | | | | | | |
|----------------------------|-------|--------|------|--------|------|--------|
| 20 | 7800 | (3200) | 2500 | (1400) | 4800 | (1800) |
| 25 | 6500 | (3000) | 2000 | (1000) | 4000 | (1600) |
| 30 | 12000 | (5500) | 3500 | (1800) | 6000 | (2400) |
| 35 | 10000 | (3600) | 2900 | (1500) | 5500 | (2000) |

| Series UCFL/UCFL-R ø mm | | | | |
|----------------------------|-------|-----|-------|-----|
| 20 | 12000 | (-) | 10000 | (-) |
| 25 | 12500 | (-) | 11000 | (-) |
| 30 | 12800 | (-) | 11500 | (-) |

| Series UCFL/UCFL-R ø mm | | | | | | |
|----------------------------|-------|--------|------|--------|------|--------|
| 20 | 10000 | (3600) | 2500 | (1400) | 4800 | (1800) |
| 25 | 8500 | (3200) | 2000 | (1000) | 4000 | (1600) |
| 30 | 14000 | (6500) | 3500 | (1800) | 6000 | (2400) |
| 35 | 12000 | (5500) | 2900 | (1500) | 5500 | (2000) |

| Series UCFL/UCFL-R ø mm | | | | | | |
|----------------------------|------|-----|------|-----|------|-----|
| 20 | 8000 | (-) | 2000 | (-) | 2500 | (-) |
| 25 | 8500 | (-) | 3000 | (-) | 3000 | (-) |
| 30 | 9000 | (-) | 3500 | (-) | 3500 | (-) |



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STEEL CHAIN MATERIALS

MATERIALS



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Index chains.
Go to product page:

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C45



CARBON STEEL: S AND SR

C45 steel material allows a higher yield load capability than stainless steel but is not corrosion resistant, thus only suitable for dry environments. Oil lubrication may be necessary to reduce rust and drag. The through hardened plate material provides a uniform hardness and a high abrasion resistance.

FEATURES:

- Surface hardness: 44 HRC

BENEFITS:

- High mechanical strength
- High abrasion resistance

STANDARD



STANDARD STAINLESS STEEL: SS AND SSL

AISI 430 Stainless steel material with good mechanical characteristics and corrosion resistance. An economical option for many conveying applications.

Lower load and lower wear resistance capability than our higher grade stainless steel materials.

FEATURES:

- Standard stainless steel

BENEFITS:

- Food grade
- Economical solution

EXTRA PLUS



EXTRA PLUS STAINLESS STEEL: SSE, SSSR, SSEL AND SPSP

High performance stainless steel, specially developed for high speed and heavy-duty application. Offers excellent corrosion resistance and surface hardness.

FEATURES:

- Surface hardness of HRC 26-30
- Extremely flat and smooth surface finish
- High corrosion and wear resistance
- Highest ultimate yield loading capability

BENEFITS:

- Food grade
- Typically used in glide liners and pressureless combiners and very long conveyors
- For improved product stability

AUSTENITIC



AUSTENITIC STAINLESS STEEL: SSA

AISI 304 Austenitic stainless steel which offers high corrosion and acid resistance properties.

FEATURES:

- Stainless steel with 18% chrome and 8% nickel

BENEFITS:

- Food grade
- High corrosion and acid resistance material

| | | | | | |
|---------------|------------|-------------------|-----------------|----------------------|---------------------|
| | | | | | |
| HIGH STRENGTH | FOOD GRADE | MEDIUM HIGH SPEED | VERY HIGH SPEED | CORROSION RESISTANCE | CHEMICAL RESISTANCE |



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7 3 5 6 1 a **PIN MATERIALS FOR STEEL AND PLASTIC CHAINS**
MATERIALS

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SPM

STANDARD PIN MATERIAL

Special stainless steel with higher tensile strength and improved surface hardness. These pins are offered as standard in most stainless steel and plastic chains.



FEATURES:

- High wear, corrosion and acid resistance

BENEFITS:

- Longer wear life

HB

SPECIAL PIN MATERIAL

Vacuum hardened stainless steel with exceptionally high wear resistance characteristics, good corrosion and chemical resistance, for high speed and or abrasive applications with steel chain.



Pin wear is the main contributing factor in chain elongation.

Due to their extraordinary hardness, HB pins offer a much better resistance against mechanical/abrasive wear and thus extended service life of chain.

HB (Harten Bolzen) pins are recommended for the following operating conditions and applications:

- Abrasive environment (e.g. crate and bottle conveyors)
- Short conveyors running at high speed (e.g. filler area, inspector sections, pressure less combiners)
- High load applications (e.g. accumulation area, full crate conveyors, full bottle accumulation tables, keg lines)

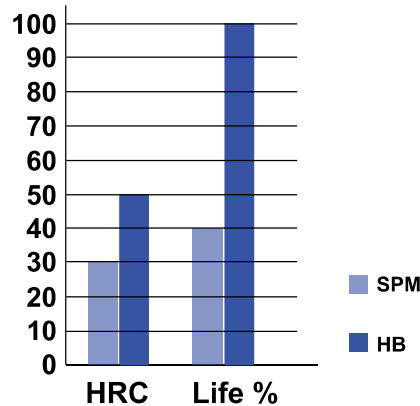
FEATURES:

- Hardness > HRC 48

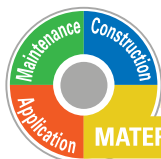
BENEFITS:

- Ultimate abrasion resistance
- Outstanding wear life
- Wear resistance twice of standard pin

SPECIAL PIN MATERIAL HB vs STANDARD PIN MATERIAL SPM



| | | | |
|---------------|-----------------|----------------------|---------------------|
| | | | |
| HIGH STRENGTH | VERY HIGH SPEED | CORROSION RESISTANCE | CHEMICAL RESISTANCE |



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7 3 5 6 2 a PIN MATERIALS FOR STEEL AND PLASTIC CHAINS MATERIALS



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PPM



PLASTIC PIN MATERIAL

Special reinforced acetal resin. For plastic chains only.

FEATURES:

- Optimum strength

BENEFITS:

- Ultimate abrasion resistance
- Outstanding wear life
- Suitable for metal detection applications

FPM



FERRITIC STEEL PIN MATERIAL FOR MAGNETIC CHAINS

Ferritic Stainless-Steel pin is used for magnetic side-flexing chains. This material offers a great retention force in combination with magnetic curve.

FEATURES:

- High wear resistance

BENEFITS:

- Optimum retention force
- Longer wear life

| | |
|--|----------|
| | |
| SUITABLE FOR METAL DETECTION APPLICATION | MAGNETIC |



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7 3 5 6 3 a **PLASTIC CHAIN AND BELT MATERIALS**
MATERIALS



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LF

LOW FRICTION ACETAL RESIN

This material is commonly used in the market and offers an improved coefficient of friction. It is also suitable for use in high speed applications.

LFG

Plastic Chain Color: Light Brown (LF), Dark Grey (LFG) or White (LFW)

LFB

Plastic Belt Color: Grey (LFG); Blue (LFB); white (LFW)

LFW

FEATURES:

- Optimum strength and wear life

BENEFITS:

- Food grade



Index chains.

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Index plastic belts.

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NG®evo

NG®evo conveyor components made from engineered plastic resin

Extra performance PBT with lowest coefficient of friction in our range, resulting in good strength and optimum wear resistance, reduced plate wear and reduced pitch elongation.

Available exclusively from Regal® System Plast® product.

Color: Grey Blue

FEATURES:

- Optimum strength and wear life
- Lowest coefficient of friction
- Optimum abrasive resistance
- Higher operating temperature in dry conditions

BENEFITS:

- Food grade
- High speed application
- Dry running application



| | | | | |
|---------------|------------|-------------------|-----------------|----------------------------------|
| | | | | |
| HIGH STRENGTH | FOOD GRADE | MEDIUM HIGH SPEED | VERY HIGH SPEED | VERY LOW COEFFICIENT OF FRICTION |



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7 3 5 6 5 a SPECIAL PLASTIC CHAIN AND BELT MATERIALS MATERIALS

On request and for adequate quantities belts may be produced in other materials such as:



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Index belts.
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AS



ANTI-STATIC ACETAL RESIN

Anti-static acetal material with improved surface conductivity for greater protection against static electrical discharges.

Color: Black (AS)

FEATURES:

- Antistatic

BENEFITS:

- Dissipates nuisance static build-up

HT



HIGH TEMPERATURE RESISTANT

Polyamide material based for high temperature applications up to 140°C.

Color: Natural white

BENEFITS:

- High temperature resistance
- Food grade

XT



EXTRA TEMPERATURE

This material with fiber glass-reinforced offers an excellent heat and chemical resistance for belt/chain and a good load capacity in respect to other materials. XT is suitable for extra high temperature applications up to 240° C.

Color: Beige

BENEFITS:

- Very high temperature up to 240°C

PP

PPW



CHEMICAL RESISTANCE

For belts: polypropylene material for greater chemical and temperature resistance. Polypropylene has lower mechanical strength than acetal. For belts (PP) the pins and clips are also made of Polypropylene.

Color: Beige (PP), White (PPW).

BENEFITS:

- Food grade
- Higher temperature resistance
- Optimum chemical resistance

PPG

PPLG



HIGH STABILIZED HOMOPOLYMER

For belts: Polypropylene material for a greater chemical and temperature resistance. This Polypropylene is a high stabilized homopolymer, combining high impact strength and stiffness. It has been developed especially for high detergent resistance and heat stability. Apart from pasteurizers, this material is also used in industrial washing machines, heat exchangers and dishwashers.

Color: Dark Grey (PPG), Light Grey (PPLG).

BENEFITS:

- Food grade
- Higher temperature resistance
- Optimum chemical resistance

CR



For chains: reinforced polypropylene material for greater acid and chemical resistance. Polypropylene has lower mechanical strength than acetal. **Reinforced PP is not food grade.**

Color: White (CR, for chains only)

Special colours

On request and for adequate quantities, chains and belts may be produced in other colours.

| | | | | |
|------------|------------|-----------------------------|----------------------------------|---------------------|
| | | | | |
| FOOD GRADE | ANTISTATIC | HIGH TEMPERATURE RESISTANCE | VERY HIGH TEMPERATURE RESISTANCE | CHEMICAL RESISTANCE |



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7 3 5 6 6 a SPECIAL PLASTIC CHAIN AND BELT MATERIALS

PP-FR-EC



FLAME RETARDANT, ELECTRICALLY CONDUCTIVE POLYPROPYLENE

Flammability according to UL94 is classified as V0. Due to the very low surface resistivity, this material can be considered electrically conductive.

Colour: Black.



◀ back continue ▶

Special colours

On request and for adequate quantities, chains and belts may be produced in other colours.

| | |
|-----------------|-------------------------|
| | |
| FLAME RETARDANT | ELECTRICALLY CONDUCTIVE |



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7 3 5 6 8 a **PIN MATERIALS FOR BELTS**
MATERIALS

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Index belts.
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PBT

PBT

Most commonly used pin material in System Plast® belts. This material offers a high abrasion resistance as well as a low noise operation.

POM

POM

Polyacetal pins are used in System Plast® belts. This pin material gives optimum strength.

PP

PP

Polypropylene pins are used in all belts made of PP material. The pin material is adapted to the high temperature and high chemical resistance of the belt material.

SS

SS

Ferritic stainless steel pin is used for side-flexing belt 2120M. This material offers a great retention force in combination with magnetic curve.



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7 3 5 7 0 a RUBBER MATERIALS MATERIALS

TPR

TPR (SEBS)

TPR is used for VG chains and belts and for plastic gripper chains. TPR is a SEBS type rubber, which assures an optimum bonding on the plastic base material.
Mechanical properties data available on MDS.

NBR

NBR

NBR rubber is used for our gripper chains serie 1874.
It offers a soft grip and a good resistance against oils.

EPDM

EPDM

EPDM rubber is used for our gripper chains.
It offers good weather and chemical resistance, although contact with oils, gasoline and concentrated acids must be avoided.

EPDM-PP

EPDM-PP

EPDM-PP rubber is used for our gripper chains.
It offers improved chemical resistance and can be used at higher temperatures.
Resistance against steam is good.



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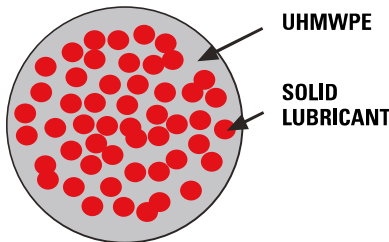
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**NOLU®-S
MATERIALS**

WHAT ARE NOLU PLASTICS?

Nolu® plastic parts are made with Regal's exclusive compounds of UHMWPE and solid lubricants/unique ingredients. They provide reduced coefficients of friction while maintaining the characteristics of UHMWPE. Our featured component brands are Nolu-S, Nolu-SR and Nolu-SX.



NOLU®-S

Nolu-S parts are made with a blend of UHMWPE and other dry lubricants that maintain good wear characteristics while significantly reducing coefficient of friction. Its unique self-lubricating properties make it ideal for applications requiring reduced friction and noise reduction.



FEATURES:

- RAM extruded or machined
- Very low coefficient of friction material flow
- High-impact strength
- Chemical resistant with minimal moisture absorption
- The Nolu®-S parts ingredients comply with EU and FDA food regulations
- Noise suppressant
- Easy to machine - most general power tools are sufficient

BENEFITS:

- Extends the life of mating surfaces
- Reduce surface marring and damage
- Reduces energy consumption
- Minimizes product pulsation on conveyors
- Low noise operation



MATERIALS AND CALCULATIONS - General index **7 3 5 1 0 a -**

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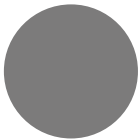
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7 3 5 7 4 a **NOLU®-S PARTS MATERIALS**

NOLU®-SR PARTS

Nolu-SR parts have the same unique self-lubricating properties as Nolu®-S parts, however, they are made with additional proprietary ingredients. These unique ingredients increase the hardness of the material, providing superior wear resistance as compared to standard UHMWPE. Benefits of Nolu-SR parts include high wear resistance, extended wear life, minimization of product pulsation and low noise.

FEATURES:



- RAM extruded or machined
- Superior wear resistance - greater than standard virgin or repro material
- Low coefficient of friction - promotes material flow
- High-impact strength
- The Nolu-SR parts are made with ingredients that comply with EU and FDA regulations
- Chemical resistant with minimal moisture absorption
- Easy to machine - most general power tools are sufficient

BENEFITS:

- Even greater wear resistance
- Extends the life of mating surfaces
- Reduce surface marring and damage
- Reduces conveyor chain loads
- Reduces energy consumption
- Reduces product pulsation on conveyors
- Low noise operation
- Suitable for running dry at higher speed

NOLU®-SX PARTS



Nolu-SX parts has the same unique self-lubricating properties as Nolu-SR parts; however, Nolu-SX parts has a material blend that reduces the thermal expansion characteristics of the material. The thermal expansion is reduced up to 40% compared to standard UHMWPE products, making it the ideal material for neck guides.

Nolu plastics should be stored at room temperature between 50°F (10°C) and 104°F (40°C) to prevent premature aging of the material. They should also be stored in a manner to prevent distortion. Regular cleaning is also recommended with warm water and soap agents with a pH value of 4.5 to 9.0. For more technical information regarding Nolu parts, please contact our Application Engineering Group.



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7 3 5 7 5 a CURVE, WEARSTRIPS, SIDE GUIDE, SPROCKETS AND RETURN ROLLER

MATERIALS

CURVES, WEARSTRIPS AND SIDE GUIDE MATERIALS

UHMWPE GREEN

ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMWPE)

This Polyethylene polymer with extremely high molecular weight has several unique properties such as high abrasion resistance, impact strength and low coefficient of friction. The UHMWPE are used for our side guide profiles, curves and wearstrips.

UHMWPE BLACK

UHMWPE WHITE

UHMWPE WATER BLUE

UHMWPE-AS BLACK

ANTISTATIC ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMWPE-AS)

This PE polymer with extremely high molecular weight has several unique properties such as good wear resistance, good impact strength, good sliding and antistatic properties. These properties make the material suitable for curves and straight tracks.

Surface Resistivity: $10^3 - 10^4 \Omega$; Volume Resistivity: $10^3 - 10^4 \Omega.cm$.

NOLU®-CP

NOLU®-CP PARTS

Nolu-CP parts are made with Regal's exclusive compounds of UHMWPE and micro glass beads. Curves and neck guide made with this material are the most suitable for abrasive working conditions.

POM - GREEN

POM-ACETAL

POM - WHITE

This polyacetal used for roller guide provide a high rigidity, hardness and toughness and good chemical resistance to alkalis.

SPROCKETS, IDLER MATERIALS

PA BLACK

GLASS FIBER REINFORCED POLYAMIDE (PA-FV)

The reinforced polyamide with glass fiber is used for molded sprockets and idlers to offer a high strength and wear resistance.

PA WHITE

POLYAMIDE (PA)

The cast polyamide 6 is used for machined sprockets and idlers to offer a high strength and wear resistance.

RETURN ROLLERS MATERIALS

PE-HD BLACK

HIGH-DENSITY POLYETHYLENE (PE-HD)

PE-HD GREEN

The high-density polyethylene is used for return roller and it has a good abrasion resistance, impact strength and a low coefficient of friction.

PA BLACK

POLYAMIDE (PA)

PA GREEN

The impact polyamide resin is used for return roller to offer a high strength and wear resistance.



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7 3 5 7 6 a STORAGE OF PLASTIC CHAINS AND BELTS AND RoHS MATERIALS

STORAGE OF PLASTIC CHAINS AND BELTS

Plastic chains, belts and components offer best stability and resistance against environmental effects at appropriate storage:

- In the original packaging, and not exposed to the environment
- Without environmental radiation / UV light / direct sunlight
- Dry
- In a non-aggressive environment
- A consistent temperature between 10°C (50° F) and 40°C (104° F)

FIRST IN, FIRST OUT

- We have applied that procedure in our logistic department.
- We recommend this procedure to any external warehouse.

Do not stack pallets or other heavy goods on top of chain packs. Chains inside the packs might get damaged. Do not stack chain packs higher than the original stacking height - as dispatched from our shipping department.

PRODUCT SHELF LIFE

| PRODUCT CLASS | TIME FROM MANUFACTURING DATA | REFURBISH (INSPECT, CLEAN, RELUBRICATE AND REPACKAGE) | DON'T USE |
|-------------------------------|------------------------------|---|-----------|
| All solid steel and cast iron | 5 years | 5 years | 10 years |
| Plastic: rubber and EPDM | 3 years | Not Applicable | 3 years |
| Plastic: UHMWPE | 3 years | Not Applicable | 3 years |
| Plastic belts and Chains | 3 years | Not Applicable | 3 years |
| Plastic idler and sprockets | 3 years | Not Applicable | 3 years |
| Bearings | 3 years | 3 years | 6 years |

RoHS

System Plast® CHAINS, BELTS AND COMPONENTS materials do meet the base requirements of this european directive. Therefore, the RoHS (Restriction of Hazardous Substances) directive of 2002/95/CE and subsequent modifications do not apply to our products.

ATEX

FOR ATEX APPLICATION, CONTACT OUR TECHNICAL SUPPORT.

REACH

Regal materials meet the requirements of this European regulation.



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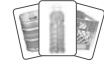
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7 3 5 7 7 a DISPOSAL OF PRODUCTS

DISPOSAL OF PLASTIC CHAINS AND BELTS

The non-electric nor electronics waste (plastic, rubber and metals parts) are not considered special waste and must be disposed of in strict compliance with the local regulations regarding non-special waste.

DISPOSAL OF MODSORT® MODULES

The wood packaging material of Modsor[®] modules is fully recyclable and FITOK certified in accordance with the ISPM-15 regulation.



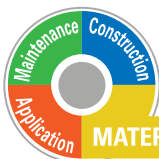
The electrical and electronic parts of Modsor[®] modules listed below are marked with the symbol



and classified as Waste of electric and electronic equipment (WEEE) in accordance with the European Directive 2012/19 / EU on WEEE.

- Control Card
- Divert Belt and Roller Top Belt's Motorized Drive Rollers (MDRs)
- Photo eyes
- Power Supply Unit

These WEEE must be disposed correctly at a suitable collection point according to the procedures in use in the country of disposal.



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7 3 5 7 8 a COEFFICIENTS OF FRICTION OF STANDARD MATERIALS

MATERIALS

Below listed coefficients can be used as a guideline. Depending on environmental and application requirements, (temperatures, lubricant, material combinations, dirt/debris, product and chain/belt surfaces, etc.) the coefficients are subject to some variation. Values are generally conservative.

COEFFICIENT OF FRICTION BETWEEN CHAIN/BELT AND WEARSTRIP:

| CHAIN/BELT MATERIAL | LUBRICATION | WEAR STRIP MATERIAL | | | | | |
|--|----------------------|---------------------|-----------|----------------------------|------|---------------|------------------------|
| | | STAINLESS STEEL | UHMWPE PA | NOLU [®] -S PARTS | WOOD | RETURN ROLLER | EXTRA WITH METAL STRIP |
| Stainless steel | Dry | N/A | 0.35 | 0.32 | 0.35 | 0.10 | not applicable |
| | Dry lube | 0.39 | 0.26 | 0.23 | N/A | 0.08 | |
| | Water&Soap | 0.20 | 0.18 | 0.15 | N/A | 0.05 | |
| Carbon steel | Dry lube or Oil lube | 0.39 | 0.26 | 0.23 | N/A | 0.08 | not applicable |
| LF - Acetal | Dry | 0.24 | 0.20 | 0.18 | 0.23 | 0.10 | 0.19 |
| | Dry lube | 0.18 | 0.17 | 0.13 | N/A | 0.07 | 0.14 |
| | Water&Soap | 0.15 | 0.10 | 0.10 | N/A | 0.05 | 0.10 |
| NG [®] evo conveyor components made from engineered plastic resin | Dry | 0.20 | 0.16 | 0.13 | 0.17 | 0.10 | 0.14 |
| | Dry lube | 0.16 | 0.10 | 0.08 | N/A | 0.07 | 0.09 |
| | Water&Soap | 0.14 | 0.09 | 0.08 | N/A | 0.05 | 0.09 |
| PP / CR | Dry | 0.29 | 0.24 | 0.21 | 0.22 | 0.10 | 0.23 |
| | Dry lube | 0.22 | 0.18 | 0.16 | N/A | 0.07 | 0.17 |

Valid for ambient temperature 21°C (70° F)

COEFFICIENT OF FRICTION BETWEEN CHAIN/BELT AND PRODUCT:

| CHAIN/BELT MATERIAL | LUBRICATION | PRODUCT MATERIAL | | | | | |
|--|----------------------|------------------|---------------|----------|--------------------|----------------|---------------------|
| | | PAPER CARTON | METAL (STEEL) | ALUMINUM | PLASTICS INCL. PET | GLASS (RETURN) | NEW GLASS, CERAMICS |
| Stainless steel | Dry | 0.40 | 0.50 | 0.35 | 0.30 | 0.47 | 0.35 |
| | Dry lube | N/A | 0.34 | 0.29 | 0.24 | 0.30 | 0.29 |
| | Water&Soap | N/A | 0.20 | 0.15 | 0.15 | 0.21 | 0.15 |
| Carbon steel | Dry lube or Oil lube | N/A | 0.34 | 0.29 | 0.24 | 0.30 | 0.29 |
| Speed - Line | Dry | 0.40 | 0.45 | 0.32 | 0.27 | 0.40 | 0.29 |
| | Dry lube | N/A | 0.29 | 0.26 | 0.22 | 0.25 | 0.23 |
| | Water&Soap | N/A | 0.15 | 0.14 | 0.13 | 0.18 | 0.13 |
| LF - Acetal | Dry | 0.28 | 0.25 | 0.25 | 0.21 | 0.24 | 0.20 |
| | Dry lube | N/A | 0.19 | 0.17 | 0.15 | 0.17 | 0.14 |
| | Water&Soap | N/A | 0.15 | 0.14 | 0.13 | 0.14 | 0.12 |
| NG [®] evo conveyor components made from engineered plastic resin | Dry | 0.20 | 0.18 | 0.15 | 0.13 | 0.14 | 0.12 |
| | Dry lube | N/A | 0.15 | 0.13 | 0.11 | 0.12 | 0.11 |
| | Water&Soap | N/A | 0.13 | 0.12 | 0.10 | 0.11 | 0.10 |
| LBP | Dry | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| VG | Dry | 0.60 | 0.73 | 0.50 | 0.50 | 0.50 | 0.50 |
| PP / CR | Dry | 0.40 | 0.30 | 0.32 | 0.28 | 0.29 | 0.26 |
| | Dry lube | N/A | 0.23 | 0.25 | 0.21 | 0.22 | 0.20 |

Valid for ambient temperature 21°C (70° F)

For iCOF[®] device.
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7 3 5 8 0 a **COEFFICIENT OF FRICTION - MEASUREMENT PROCEDURE**

MATERIALS

In this section, we will describe the measurement method for coefficient of friction (COF or μ) between belt/chain and product on a running conveyor.

The COF is defined as the ratio between the force necessary to move one surface horizontally over another and the pressure between the two surfaces. It can be measured by dividing the force required to push or pull an object by its weight. The pull and the product weight can be determined by measurement using a spring or force gauge. Please follow the below instructions, ensuring both conveyor and sample product are clean and clear of all debris:

1- At first be sure to have:

- a. Mechanical or digital spring gauge with suitable sensitivity and accuracy
- b. A spirit level gauge (in case of inclined conveyor)
- c. A suitable sample of product weight (bottles/cans etc.)
- d. Available space on the running conveyor where the COF measurement is required

2- Measure the sample weight (W):

- a. Use sample product with suitable weight. It is recommended to collect one or more products to get 1 kg of product weight.
- b. Measure the product weight using a scale or spring gauge
- c. Record the value when the scale is stabilized

3- Measure the pull (F₀):

- a. Be sure that conveyor is running and the surface is level. Otherwise measure carefully the angle
- b. With the same sample as step 2.a), take measurements in the same location on the conveyor and at the same speed if possible
- c. Secure the gauge to a fixed point on the conveyor or hold the gauge by hand avoiding movements. If possible, steady your hand by resting it on conveyor frame or guide rail
- d. Ensure that the gauge is parallel to the conveyor
- e. Put the sample product on the conveyor, attach to spring gauge, and measure the horizontal pull (F₀).
- f. Take the value when the measurement is stabilized
- g. Make three (03) measurements at the same conditions
- h. Make the average of the obtained three (03) values
- i. Repeat steps 2 and 3 for multiple different containers

4- COF calculation:

- a. Be sure that the average W and F₀ values are in the same measurement unit (g or kg or lb);
- b. Use the formula $\mu = \frac{F_0}{W} = \frac{\text{measured pull}}{\text{measured weight}}$ to obtain the average value of COF; (4b)

Be aware that for some gauges it is required to compensate the reading with the plunger weight (P) (1) since it is used horizontally. Refer to page **7 3 5 8 1 a** for further details.

With the plunger weight compensation, the formula 4b) becomes:

$$\mu = \frac{(F_0 + P)}{W} = \frac{\text{measured pull} + \text{plunger weight}}{\text{measured weight}}$$

If the conveyor is inclined with respect to the running direction, the angle α is to be considered as following:

- Measure the angle α (usually from 2° to 5°);
- Use the formula $\mu = \frac{(F_0 + P)}{W \cos \alpha} - \tan \alpha$ (Running direction downwards) (1).
- Use the formula $\mu = \frac{(F_0 + P)}{W \cos \alpha} + \tan \alpha$ (Running direction upwards) (1).

Notes: (1) P=0 for spring gauges with adjustable preload. Refer to good measurement practice for further details.



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7 3 5 8 1 a COEFFICIENT OF FRICTION - GOOD MEASUREMENT PRACTICE

MATERIALS

Here we describe good practices when measuring the COF within belt/chain in a running conveyor.

SELECTION OF THE INSTRUMENT

The higher the sensibility, the more accurate the measurement. 10 g divisions and +/- 10% (or ounces) is a good compromise for a rough estimation.

A. Gauge with mechanical spring (0-10 kg)

- i. Needs certain weight
- ii. Needs to compensate spring preload and "plunger"
- iii. Is more accurate / repeatable

There are spring gauges on the market with adjustable preload, in order to compensate the plunger. For those types of gauges, just adjust the reading scale to 0 when reading in horizontal position. Remember to reset the scale to 0 when reading values in vertical position (i.e. when weighting a bottle).

B. Digital gauge (0-45 kg)

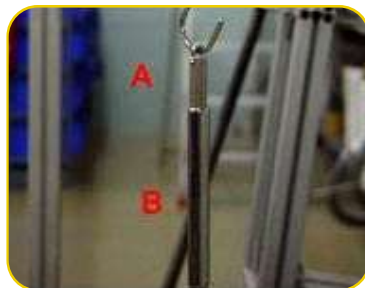
- i. Needs lower weight
- ii. Don't always need to compensate for the "plunger"
- iii. Less accurate / repeatable

REQUIRED ACTIVITIES AND CHECKS PRIOR TO MEASUREMENT

A. Gauge with mechanical spring: Plunger preload determination

- i. Prior to the measurement ensure that also the spring dynamometer reads zero when in vertical working position. Tare if necessary.
- ii. Weight the dynamometer on a balance or using a second scale. Record the value. Weight reading of the total scale $x = A$ plunger preload + B scale body [g]
- iii. Hang the dynamometer upside down. If the instrument's own weight is not enough to pull the plunger by at least 10% of his own full scale, hang some additional weight at the bottom. The additional weight should be deducted from the reading.
- iv. Weight reading of the scale upside-down $y = B$ scale body - A plunger [g]. Read and store the value on the scale.

v. Plunger weight (spring preload) will be $A = \frac{x - y}{2}$ RECORD THIS VALUE!



Example:

Gauge weights 140 g, upside-down reading is 36 g, the spring-preload is $(140-36)/2 = 52$ g. For the horizontal reading, you will have to add this value to the displayed force.



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7 3 5 8 2 a COEFFICIENT OF FRICTION - GOOD MEASUREMENT PRACTICE

MATERIALS

B. Digital gauge: Plunger preload determination

If your digital tool offers the possibility to switch it to horizontal, you don't need to calculate the plunger preload. In fact, in horizontal configuration, the cell automatically pre-sets to zero.

Some digital tools, on the contrary, do not allow to be switched to horizontal (they need a certain weight, given by the plunger when lying vertically to activate the cell). Under such condition proceed in plunger preload determination as per previous point.

Periodically check your instrument and compare the measurements with a second one. This is required to check any possible deviation of measurements due to loss of tare.

Recommendations

- A higher is the sample product weight, a lower is the error in the estimated value
 - If possible, we recommend using multiple containers to increase product weight
- Measure the product weight close to the ground so as to prevent any dropped bottles from breaking
- Take a stabilized measurement. Instrument gauge has a response time, so we recommend respecting this time to read an accurate value
- The more measurements that are taken and averaged, the more reliable the result will be.
- A smooth, clean surface allows an accurate COF measurement without the influence of wear
- Using the same sample(s) in all measurements will lead to a uniform and repeatable value
- Securing the gauge to a fixed point on the conveyor will remove human error from holding the spring gauge
- Ensure you hold the gauge and the plunger parallel to the conveyor, so as to achieve an accurate measurement



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7 3 5 8 6 a CHEMICAL RESISTANCE OF STANDARD MATERIALS

MATERIALS

Data shown in the table was taken from laboratory tests performed on unstrained samples and are merely indicative.

Chemical resistance under normal working conditions can depend on various factors, such as stress and temperature, concentration of the chemical agent and contact time. Conveyor rinsing can also be a huge factor, as a corrosive chemical that is allowed to dry and concentrate will be more problematic than one that is allowed contact for a short time and thoroughly rinsed away.

continue ►

VALID FOR AMBIENT TEMPERATURE (21°C / 70°F)

| CHEMICAL AGENT | METALS | | | | | | | | PLASTICS | | | | | | RUBBERS | | | | | | | | | |
|----------------------|--------|----------|----------|-------|----------|-----------|----|----|----------|------|-----|------|--------|-----|---------|----|----|----|---|---|----|---|----|---|
| | EXTRA | AISI 304 | AISI 316 | OT.NI | LF (POM) | NGE (PBT) | PP | PA | PE | EPDM | NBR | SEBS | VITON* | | | | | | | | | | | |
| | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | | | | | | | | | | | |
| Acetic Acid | 5 | ✓ | 20 | ✓ | 100 | ✓ | ○ | 5 | ✗ | 10 | ✓ | 40 | ✓ | 10 | ✗ | 10 | ✓ | 25 | ✓ | ✗ | 25 | ○ | 20 | ✗ |
| Acetone | | ✓ | 25 | ✓ | | ✓ | ✓ | | ○ | | ○ | | ✓ | 100 | ✓ | | ✓ | | ✓ | ✗ | | ○ | | ✗ |
| Acrylonitrile | | | | | | ✓ | | | | | | | 100 | ✓ | | ✓ | | | ✓ | ✗ | | ○ | | ✗ |
| Aluminium chloride | | | | ○ | 10 | ○ | | | | | | | ○ | 10 | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | SA | ✓ |
| Aluminium sulphate | | | | | SA | ✓ | | | | | | | ✓ | 10 | ✓ | SA | ✓ | | ✓ | ✓ | ✓ | ✓ | SA | ✓ |
| Amyl alcohol | | | | ✓ | | ✓ | | | | | ✓ | | ✓ | 10 | ✓ | | | | ✓ | | | ✓ | | ✓ |
| Ammonia | | ✓ | 100 | ✓ | | ✓ | ✗ | | ✓ | | ○ | 30 | ✓ | 10 | ✓ | | ✓ | | ○ | ○ | ○ | ○ | ○ | ○ |
| Ammonium chloride | | | | ○ | | ✓ | | | | | | 10 | ✓ | 10 | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | SA | ✓ |
| Aniline | | ✓ | | | ✓ | ✓ | | | | | | | ✓ | 100 | ○ | 3 | ✓ | | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ |
| Barium chloride | | | | ○ | SA | ✓ | | | | | | | ✓ | 10 | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Beer | | ✓ | | ✓ | | ✓ | ✓ | | ✓ | | | | ✓ | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Benzene | | ✓ | 70 | ○ | | ✓ | | | ✓ | | ✓ | | ✓ | | | ○ | | | ✗ | | | ✗ | | ✓ |
| Benzoic acid | | | 100 | ✓ | SA | | | | | | ✓ | SA | ✓ | SA | ○ | | | ✓ | ✗ | ✓ | ✗ | ✓ | ✓ | ✓ |
| Benzol | | | | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | ○ | 100 | ✓ | | ✓ | | ✗ | ✗ | ✗ | ○ | ○ | ○ |
| Boric acid | | ○ | SA | ✓ | | ✓ | ✓ | | ✗ | 10 | ✓ | SA | ✓ | 10 | ✓ | SA | ✓ | | ✓ | ✓ | ✓ | ✓ | SA | ✓ |
| Brine | 10 | ✗ | | ○ | | ✓ | ✓ | | | | | | ○ | ○ | ✓ | | ✓ | | | | | ○ | | ○ |
| Butter | | | | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ○ | | ✓ |
| Butyl acetate | | | | | | ✓ | | | ✓ | | ○ | ○ | 100 | ✓ | | | ○ | | ○ | | | ○ | | ✗ |
| Butyl alcohol | | | | ✓ | | | | | ✓ | | ✓ | | 100 | ✓ | | | ✓ | | ○ | | | ✓ | | ✓ |
| Butyl glycole | | | | | | ✓ | | | | | ✓ | | 100 | ✓ | | | ✓ | | ✓ | | | ✓ | | ✓ |
| Calcium chloride | | ✗ | | ○ | | ✓ | ✓ | | 10 | ✓ | | ✓ | 50 | ✓ | 10 | ✓ | SA | ✓ | | ✓ | | ✓ | SA | ✓ |
| Carbon sulphide | | | | ✓ | | ✓ | | | ✓ | | ✓ | | ✓ | 100 | ✓ | | ○ | | ✗ | ✗ | ✗ | ✗ | | ✓ |
| Carbon tetrachloride | | | 10 | ✓ | | | ✓ | | ✓ | | ✓ | | ✗ | | ✓ | | | | ✗ | | | | | ✓ |
| Chlorine water | | ✗ | | ✗ | | ○ | | | ✗ | | ✗ | | ✗ | | | | ✓ | | 3 | ○ | | 3 | ○ | |
| Chloroform | | ○ | 10 | ✓ | | ✓ | ✓ | | ✗ | | ✗ | | ○ | 100 | ✗ | | ✗ | | ✗ | ✗ | ✗ | ✗ | | ✓ |
| Chromic acid | | | 25 | ✓ | 50 | ○ | | | ✗ | | ○ | | | 1 | ○ | 50 | ○ | 50 | ○ | ✗ | 50 | ✗ | 50 | ✓ |
| Citric acid | 10 | ✓ | | ✓ | SA | | ✗ | | ○ | 10 | ✓ | 10 | ✓ | 10 | ○ | SA | ○ | | ✓ | ✓ | ✓ | ✓ | SA | ✓ |
| Cyclohexane | | | | | | ✓ | | | | | ✓ | | ✓ | 100 | ✓ | | ✓ | | ✗ | ✓ | ✓ | ✗ | | ✓ |
| Cyclohexanol | | | | | | ✓ | | | | | ✓ | | ✓ | 100 | ✓ | | ✓ | | ✗ | ✓ | ✓ | ○ | | ✓ |
| Decalin | | | | | | ✓ | | | | | ○ | | ✓ | | | | | ✗ | ○ | ○ | ✗ | ✗ | | ✗ |
| Dioxane | | | | | | ✓ | | | ○ | | ✓ | | ○ | | ✓ | | ✓ | ○ | ○ | ✗ | ✗ | ✗ | | ✗ |
| Distilled water | | ✓ | 10 | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | | ✗ |
| Ethyl acetate | | | | ○ | | ✓ | | | ○ | | ○ | | ✓ | 100 | ✓ | | ✓ | | ✗ | | | ○ | | ○ |
| Ethyl alcohol | | | | ✓ | | | | | ✓ | | ✓ | 96 | ✓ | 96 | ✓ | 96 | ✓ | | ○ | | | ○ | | ✓ |
| Ethyl chloride | | | | ✓ | | | ○ | | ✓ | | ✗ | | 100 | ✓ | | ○ | | ○ | | ○ | | | | ✗ |
| Ethyl ether | | | | | | ✓ | | | | | ✓ | | ✓ | 100 | ✓ | | ○ | | | | | | | ✓ |
| Ferric chloride | | | | ○ | | ✓ | | | ○ | 10 | ✓ | | ✓ | 10 | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | SA | ✓ |
| Food fats | | ✓ | 100 | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ○ | | ○ | | ○ | | | ✓ |
| Food oils | | ✓ | | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ○ | | ✓ | ✓ | ✓ | ○ | | ✓ |

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7 3 5 8 6 b CHEMICAL RESISTANCE OF STANDARD MATERIALS MATERIALS

Data shown in the table was taken from laboratory tests performed on unstrained samples and are merely indicative.

Chemical resistance under normal working conditions can depend on various factors, such as stress and temperature, concentration of the chemical agent and contact time. Conveyor rinsing can also be a huge factor, as a corrosive chemical that is allowed to dry and concentrate will be more problematic than one that is allowed contact for a short time and thoroughly rinsed away.

◀ back continue ▶

VALID FOR AMBIENT TEMPERATURE (21°C / 70°F)

| CHEMICAL AGENT | METALS | | | | PLASTICS | | | | | RUBBERS | | | | | | | | | | | |
|------------------------|--------|----------|----------|-------|----------|-----------|----|----|----|---------|-----|------|--------|----|----|----|----|----|----|----|---|
| | EXTRA | AISI 304 | AISI 316 | OT.NI | LF (POM) | NGE (PBT) | PP | PA | PE | EPDM | NBR | SEBS | VITON* | | | | | | | | |
| | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | | | | | | | | |
| Formaldehyde | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 40 | ✓ | 30 | ✓ | ○ | ○ | ○ | ○ | 40 | ✗ | | | | |
| Formic acid | 2 | ○ | ✗ | 100 | ✓ | ✓ | 10 | ✗ | ○ | 10 | ✗ | 85 | ✓ | ✓ | ✗ | ✓ | ○ | | | | |
| Freon 12 | | | ✓ | | | | | | | | | 100 | ○ | | ✓ | | ✓ | | | | |
| Fresh water | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Fruit juice | | ✓ | ○ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Gasoline | | ✓ | ✓ | ✓ | ○ | | ✓ | ○ | ○ | ✓ | ✓ | ○ | ✗ | ○ | ✗ | ✓ | ✓ | | | | |
| Glycerine | | ✓ | ✓ | ✓ | ○ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Hydrochloric acid | | ✗ | ✗ | ✗ | ○ | 35 | ✗ | 20 | ○ | 30 | ✓ | ✗ | 35 | ✓ | 15 | ✓ | 15 | ✓ | 37 | ✓ | |
| Hydrofluoric acid | | | ✗ | ✗ | | | | 5 | ○ | 40 | ✓ | ✗ | 70 | ✓ | | ✗ | | | 48 | ✓ | |
| Hydrogen peroxide | 3 | ✓ | ✓ | 100 | ✓ | | 30 | ✓ | 5 | ✓ | | ✗ | 10 | ○ | 30 | ○ | ✗ | 30 | ✗ | 90 | ✓ |
| Isopropyl alcohol | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lactic acid | | ○ | | ✓ | ✗ | | ✓ | 10 | ✓ | 20 | ✓ | ✓ | ✓ | ○ | ✓ | ○ | ✓ | ○ | ✓ | ✓ | ✓ |
| Linseed oil | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ✓ | ✓ | ✗ | | | ✓ |
| Magnesium chloride | | | ○ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SA | | ✓ |
| Methyl acetate | | | ○ | ✓ | | | ○ | ○ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ✗ | ✗ | ✗ | ✗ | | ✗ | ✓ |
| Methyl alcohol | | | 80 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ✓ | ✓ | ○ | | ✓ |
| Methylene chloride | | ○ | ○ | ✓ | ✓ | | ✗ | ✗ | ○ | ○ | ○ | ○ | ○ | ✗ | ✗ | ✗ | ✗ | ○ | | ○ | ✓ |
| Milk | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Mineral oil | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ | ✗ | | ✓ |
| Nitric acid | 25 | ○ | 65 | ✓ | | | ✗ | | ✓ | ✓ | ✗ | ○ | | | 10 | ✗ | | | 70 | ✓ | |
| Nitrobenzene | | | | ✓ | | | | ✓ | ✓ | ○ | ✓ | ✓ | ✗ | ✗ | ✗ | ○ | ○ | ○ | | ○ | ✓ |
| Oxalic acid | | | 65 | ✓ | ✓ | | | 10 | ✓ | ✓ | ✓ | ○ | ✓ | ○ | ○ | ○ | ○ | ○ | | ○ | ✓ |
| Paraffin | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ○ | ✗ | | ✗ | | ✓ |
| Petroleum | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | | ✓ |
| Petroleum ether | | | ✓ | ✓ | ✓ | | ✓ | ○ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | | ✓ | ✓ |
| Phenol | | | ✓ | ✓ | ✓ | | ○ | ✗ | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ | ✓ |
| Phosphoric acid | 25 | ○ | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 20 | ○ | ○ | ✓ | 85 | ✓ | ✓ |
| Potassium bichromate | | | | SA | ✓ | | | ○ | ✓ | ○ | SA | ✓ | ✓ | ✓ | ○ | ○ | ○ | SA | | SA | ✓ |
| Potassium bromite | | | | ✓ | | | | ✓ | ✓ | ✓ | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Potassium hydroxide | | ✓ | 50 | ✓ | ✓ | | | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Potassium permanganate | | | ✓ | ✓ | ✓ | | 10 | ○ | ✓ | ✓ | ✓ | ✗ | ✓ | 10 | ✓ | ✗ | 10 | ○ | | ○ | ✓ |
| Sea water | | ✗ | ✓ | ✓ | ✓ | | ○ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | | ○ | ✓ |
| Silicone oil | | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Silver nitrate | | | ○ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ○ | ○ | | | ○ | ✓ |
| Sodium carbonate | | ✓ | 100 | ✓ | SA | ✓ | 10 | ✓ | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sodium chloride | | ○ | ○ | ✓ | ✓ | | | ✓ | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | SA | ✓ |
| Sodium hydroxide | 40 | ✓ | ✓ | 60 | ✓ | | ✓ | 10 | ✗ | | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ○ | ✓ | | ○ | ✓ |
| Sodium hypochlorite | | | ✗ | SA | ○ | | ✗ | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | ✓ | ✗ | 10 | ○ | | 5 | ✓ |
| Sodium silicate | | | 100 | ✓ | ✓ | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |

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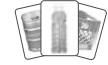
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VALID FOR AMBIENT TEMPERATURE (21°C / 70°F)

| CHEMICAL AGENT | METALS | | | | PLASTICS | | | | | RUBBERS | | | | | |
|--------------------|--------|----------|----------|-------|----------|-----------|----|----|----|---------|-----|------|--------|---|----|
| | EXTRA | AISI 304 | AISI 316 | OT.NI | LF (POM) | NGE (PBT) | PP | PA | PE | EPDM | NBR | SEBS | VITON* | | |
| | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | C% | | |
| Sodium sulphate | | 100 | ✓ | ✓ | | | | | ✓ | SA | ✓ | ○ | ✓ | ✓ | ✓ |
| Soft drinks | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Suds | | | ✓ | ✓ | | | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sulphuric acid | ✗ | ✗ | ○ | ✓ | ✗ | 2 | ✓ | ✓ | ✓ | ✗ | 80 | ✓ | 50 | ✓ | ✗ |
| Tartaric acid | ✓ | 50 | ✓ | ✓ | ✗ | ○ | 50 | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ✓ | ✓ |
| Tetrahydrofuran | | | | ✓ | | ○ | ✓ | ○ | ✓ | ○ | ○ | ✗ | ✗ | ✗ | ✗ |
| Tetralin | | ✗ | ✓ | | | ✓ | ✓ | ✗ | ✓ | ✓ | ○ | ✗ | ✗ | ✗ | ✓ |
| Tincture of iodine | | ○ | ✓ | ✗ | | | | ✓ | ✓ | ✗ | ✓ | ○ | ✗ | ○ | ✓ |
| Toluol | ✓ | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ○ |
| Transformer oil | ✓ | | | ✓ | | ✓ | ✓ | ○ | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ | ✓ |
| Trichloroethylene | | ✗ | 100 | ✓ | | ○ | ✗ | ○ | ○ | ○ | ○ | ✗ | ✗ | ✗ | ✓ |
| Triethanolamin | | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ○ | ✗ | ○ | ✗ |
| Turpentine | ✓ | ✓ | | | | ✗ | ✓ | ✓ | | ○ | ○ | ✗ | ✗ | ✗ | ✓ |
| Vaseline | | | | ✓ | | | | ✓ | | ○ | ○ | ✗ | ✓ | ✗ | ✓ |
| Vegetable juice | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Vegetable oils | ✓ | ✓ | | ✓ | | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ○ | ✓ | ○ | ✓ |
| Vinegar | ✓ | ✓ | 100 | ✓ | | ✓ | 10 | ✓ | ✓ | ✓ | ✓ | 25 | ✓ | ○ | 25 |
| Water and soap | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Whisky | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wine | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ○ | ○ | ✓ | ✓ | ✓ | ✓ |
| Xilol | ✓ | ✓ | | ✓ | ○ | ✗ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ |

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7 3 5 8 8 a APPLICATION TEMPERATURES

MATERIALS

For low and high temperature application please consult our Application Engineering department.

Be aware:

- If a chain, belt or other component is composed of several materials, all materials will have to be considered individually.
- Please note that the properties of a material change when the temperature changes
- In general, the impact resistance is reduced at low temperatures.
- The strength and wear resistance are reduced at elevated temperatures.
- High temperatures can also influence chemical resistance
- Some materials absorb moisture and expand/swell



| MATERIAL | SYMBOL | USER FOR | MIN TEMP. °C | MAX. TEMP. °C | | MIN TEMP. °F | MAX. TEMP. °F | |
|--|-----------------|-------------------------------------|--------------|---------------|-----------------|--------------|---------------|-----------------|
| | | | | DRY | WET | | DRY | WET |
| Carbon steel | C45 | Steel chains, roller chains | -70 | 180 | not recommended | -95 | 350 | not recommended |
| Ferritic stainless steel | Standard | Steel chains | -30 | 400 | 130 | -20 | 750 | 265 |
| Extra stainless steel | Extra | Steel chains | -30 | 400 | 130 | -20 | 750 | 265 |
| Extra plus stainless steel | Extra plus | Steel chains | -30 | 400 | 130 | -20 | 750 | 265 |
| Austenitic stainless steel | Austic | Steel chains, roller chains | -30 | 400 | 130 | -20 | 750 | 265 |
| Acetal resin | D,W | Plastic chains | -40 | 80 | 65 | -40 | 175 | 150 |
| Low friction acetal resin | LF (all colors) | Plastic chains and belts | -40 | 80 | 65 | -40 | 175 | 150 |
| Anti static acetal resin | AS | Plastic chains and belts | -40 | 80 | not applicable | -40 | 175 | not applicable |
| NG®evo conveyor components made from engineered plastic resin | NG®evo | Plastic chains and belts | -40 | 120 | 60 | -40 | 250 | 140 |
| Polypropylene | PP | Plastic chains and belts | 5 | 104 | 104 | 41 | 220 | 220 |
| Chemical resistant | CR | Plastic chains | 5 | 104 | 104 | 41 | 220 | 220 |
| Polyamide - PA High temperature resistance | HT | Plastic chains and belts | 0 | 140 | not applicable | 30 | 285 | not applicable |
| Polyphenylene sulfide Extra high temperature resistance | XT | Plastic chains and belts | -40 | 240 | not applicable | -40 | 464 | not applicable |
| Polyamide - PA Abrasion resistance | AR | Plastic chains | 0 | 90 | 90 | 30 | 195 | 195 |
| Thermoplastic rubber SEBS | TPR | VG chains and belts, gripper chains | -40 | 100 | 100 | -40 | 210 | 210 |
| NBR rubber | NBR | Gripper chains | -25 | 100 | 100 | -15 | 210 | 210 |
| EPDM rubber | EPDM | Gripper chains | -40 | 120 | 120 | -40 | 250 | 250 |
| EPDM-PP rubber | EPDM-PP | Gripper chains | -40 | 120 | 120 | -40 | 250 | 250 |
| Polyamide | PA | Sprockets, components | 0 | 90 | 90 | 30 | 195 | 195 |
| Polyamide reinforced | PA FV | Sprockets, bearing, components | 0 | 90 | 90 | 30 | 195 | 195 |
| Polypropylene | PP | Components | 5 | 104 | 104 | 41 | 220 | 220 |
| Polypropylene reinforced | PP FV | Bearing, components | 5 | 104 | 104 | 41 | 220 | 220 |
| Polyethylene | PE | Curves, components | -40 | 80 | 80 | -40 | 175 | 175 |
| Nolu®-S parts | Nolu®-S parts | Curves, components | -40 | 80 | 80 | -40 | 175 | 175 |



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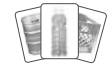
7 3 5 7 8 a Coefficient of friction of standard materials

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SYSTEM PLAST®

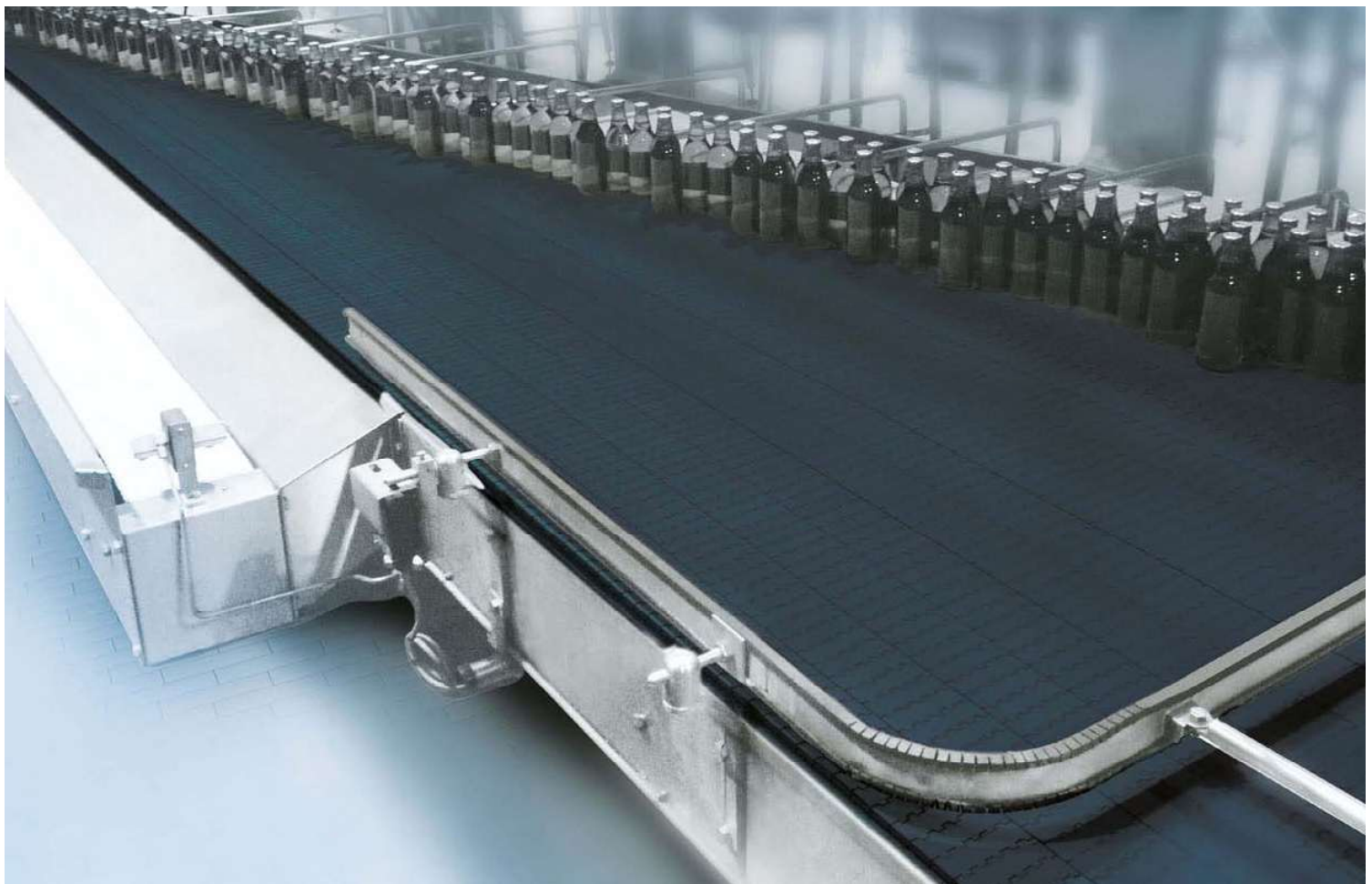


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7 3 7 0 0 a NG® EVO CONVEYOR COMPONENTS MADE FROM ENGINEERED PLASTIC RESIN

NG®
evo

Plastic Chains & Modular Belts



MATERIALS AND CALCULATIONS - General index **7 3 5 1 0 a -**

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Revision 001



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7 3 7 0 1 a NG® EVO CONVEYOR COMPONENTS MADE FROM ENGINEERED PLASTIC RESIN



WHAT PLASTIC MATERIALS ARE USED IN NEW GENERATION® CONVEYOR COMPONENTS?

The System Plast® New Generation® family of chains and belts conveyor components are made of proprietary engineered resins designed to provide a sustainable advantage over “industry standard” materials. Their reduced coefficient of friction properties enable end users to reduce or eliminate their chain/belt lubrication thus providing a true “dry running” conveyor. Better sliding properties also result in reduced power consumption, increased wear life, reduced dust generation and the ability to run at higher speeds.

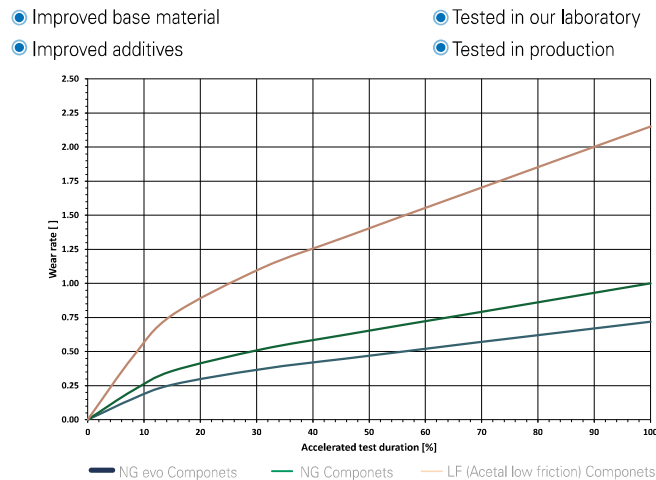
SYSTEM PLAST PRODUCTS ARE LEADING THE WAY WITH INNOVATION!

We introduced the New Generation® brand of conveyor components 20 years ago. It was soon recognized to offer new possibilities for running conveyors lines without lubrication. This enabled the reduction/elimination of soap & water or dry lubricants creating a safer work environment and cost savings. NG® conveyor components have also proven they provide longer wear life in comparison to acetal materials, and reduce noise levels in dry applications.

Regal expertise with unique materials and in-house integrated tool development is critical for consistent control over design and manufacturing processes.

MATERIAL EVOLUTION TO MEET YOUR GOALS

Understanding the growing demands on safety, hygiene, sustainability and TCO (total cost of ownership) - Regal challenged itself to improve the original formulation. This successful development created a new and improved resin used to make NG® Evolution conveyor components which helps to meet your goals. Your floors can be drier, bacteria growth can be reduced, energy and water consumption can be less and your TCO will be improved.



IMPROVEMENTS OF NG® EVO COMPARED TO NG® CONVEYOR COMPONENTS

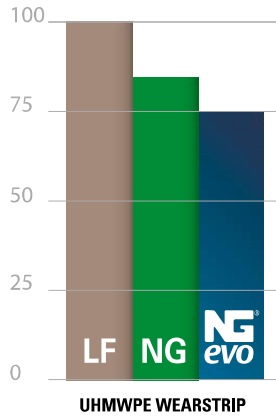
- Lower friction - Friction is reduced up to 15%.
- Higher strength - Up to 10%
- Higher abrasion resistance
- Approved for direct food contact according to EU and FDA regulations



| | | | | |
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7 3 7 0 2 a NG® EVO CONVEYOR COMPONENTS MADE FROM ENGINEERED PLASTIC RESIN



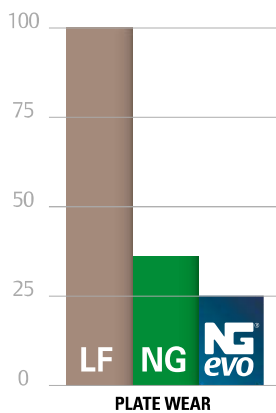
LOWEST COEFFICIENT OF FRICTION BETWEEN CHAIN /BELT AND WEARSTRIP

Coefficient of friction NG® evo conveyor components on UHMWPE wearstrip:

- 25% lower than LF acetal chain
- 15% lower than NG chain

Coefficient of friction values of 0,10 or even less are achievable in running dry applications

- Less power consumption
- Improved product stability
- Improved product flow
- Improved productivity



HIGHEST PLATE WEAR RESISTANCE

Plate wear in accelerated abrasion test after 5400 km run length

- 75% less wear than LF acetal chain
- 30% less wear than NG chain

Increased wear provides many advantages

- Less dust generation
- Reduced contamination
- Reduced cleaning requirements

NG® EVO CONVEYOR COMPONENTS ARE APPROVED FOR DIRECT FOOD CONTACT ACCORDING TO EU AND FDA REGULATIONS

NOISE REDUCTION:

With NG evo components the risk of noisy chains is greatly reduced compared to LF acetal chains. Squealing curves can be resolved and improve the work environment.

HIGH PV (PRESSURE VELOCITY) LIMIT:

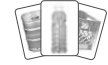
With NG evo conveyor components, higher speeds and higher loads are achievable in dry running lines compared to LF Acetal chains. Additional speed and wear advantages can be also gained when used in combination with NOLU®-S or NOLU-SR curves.

CHEMICAL RESISTANCE:

NG evo conveyor components have a better chemical resistance than LF acetal materials, being compatible with most cleaning agents, especially in aseptic filling with the presence of H₂O₂ (hydrogen peroxide). The material in NG evo components, unlike many other materials used in the same application, do not get attacked by this chemical.



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ENHANCED RUNNING DRY POSSIBILITIES WITH NG® EVO CONVEYOR COMPONENTS:

Contact Regal for assistance to help you achieve this goal.

An overview of the process is shown below :

STEP 1: GOAL TO RUN DRY

- Save water / lubricant consumption
- Eliminate wet floors • safety
- Less bacteria growth • hygiene
- Reduce maintenance
- Reduce energy consumption

STEP 2: DEFINE PROCESS PARAMETERS

- Layout
- Production / hour • speeds
- Geometry bottle, can, etc.

STEP 3: DEVELOP A ROBUST PROCESS

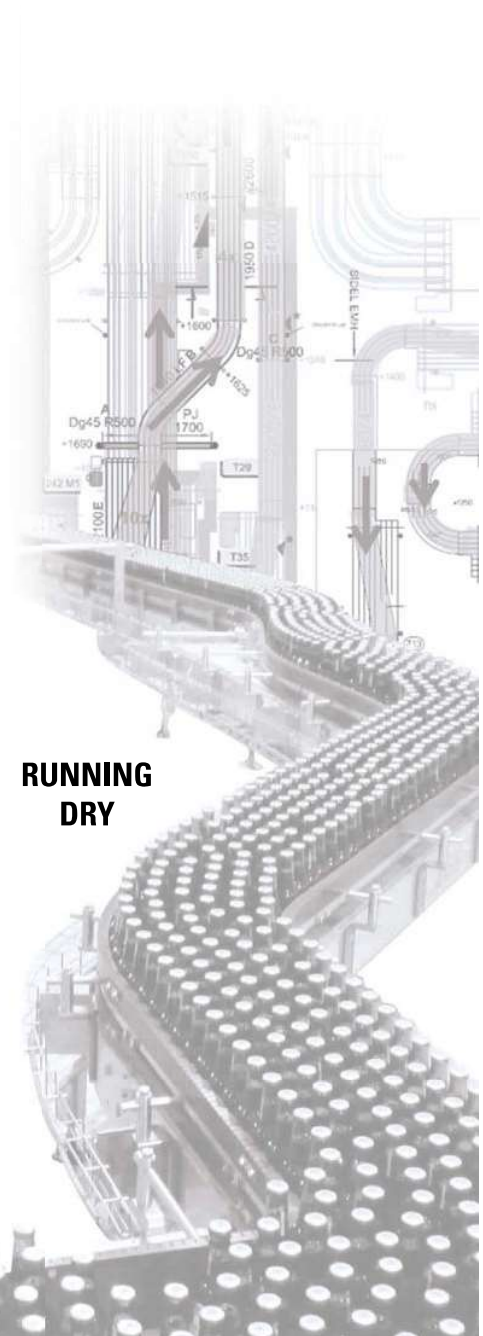
- Analyze the data from the previous step
- Discuss requirements and conditions with OEM and End user
- Select the correct products

STEP 4: IMPLEMENT DRY RUNNING

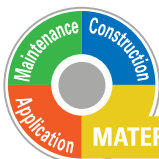
- Advise during installation
- Train operators

STEP 5: CONTROL AND IMPROVE PROCESS

- Monitor, follow up and make changes if necessary
- Analyze the collected data



**RUNNING
DRY**



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A SUCCESS STORY OF NG® CONVEYOR COMPONENTS



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DRY RUNNING SYSTEM PLAST® CONVEYOR COMPONENTS HELP HEINEKEN BREW A BETTER FUTURE WITH WATERLESS BOTTLING CONVEYORS IN ZOETERWOUE PLANT

THE TWO WATER FOOTPRINT NETWORK PARTNERS TEAM UP TO IMPROVE PLANT SAFETY AND SUSTAINABILITY BY REDUCING WATER USE, ENERGY CONSUMPTION, AND SOUND LEVELS AT ZOETERWOUE BREWERY.

Zoeterwoude, Netherlands 2014 - Heineken* N.V.'s global sustainability strategy, known as "Brewing a Better Future," produced a company-wide reduction of 20 percent in water use between 2008 and 2013. Playing a role in that improvement are System Plast NG® conveyor chain/belts and NOLU®-S wear track from System Plast S.r.l., a subsidiary of Regal Beloit Corporation (referred to from here on as "Regal"). The ultra-low-friction components, which are being deployed in phases at Heineken's Zoeterwoude brewery, eliminate the need for water and chemical-based lubrication on the filling lines - including those where abrasive particles from aluminum cans, party kegs and returnable glass bottles have been a problem in the past.

According to managers at the brewery, the dry running conveyor is producing a cascade of sustainability improvements with a cleaner, quieter, more energy-efficient and reliable plant. "We have experienced a wide variety of gains from the System Plast dry running conveyor," said Mr. Cok Duivenvoorden, Technical Line Manager at Zoeterwoude. "Specifically, we have improved plant safety and hygiene with dry equipment and floors. Maintenance is easier because of the cleanliness and better access where drip trays have been removed. We have reduced costs for water, lubricating chemicals and wastewater discharge. Dry operation is easier on conveyor bearings and frames, yet still reduces energy consumption because of the low-friction components. System Plast NG chain lasts up to five times longer than

low-friction acetal in some of our applications. And when installed to replace worn-out conveyor, the new chain pays for itself in as little as a year."

A JOINT GOAL TO REDUCE WATER USE IN BEVERAGE PROCESSING

One goal of Heineken's "Brewing a Better Future" sustainability program is to reduce water consumption by at least 25% by 2020, and both Heineken and Regal are pursuing dry conveying solutions as members of the Water Footprint Network. The network is a global organization of businesses, governmental agencies and environmental groups that promotes the transition to sustainable use of fresh water resources through increased awareness of how production and consumption of goods affect fresh water systems.



*Heineken is believed to be a trademark and/or trade name of Heineken Brouwerijen B.V. and is not owned or controlled by Regal Beloit Corporation.

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7 3 9 9 5 a APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

For a copy of our Standard Terms and Conditions of Sale, Disclaimers of Warranty, Limitation of Liability and Remedy, please contact Customer Service.

These terms and conditions of sale, disclaimers and limitations of liability apply to any person who may buy, acquire or use a Regal Beloit America Inc. product referred to herein, including any person who buys from a licensed distributor of these branded products.

INSPECTION AND MAINTENANCE 73010a

72110a CONSTRUCTION DETAILS

APPLICATIONS 72510a

73510a MATERIALS AND CALCULATIONS



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|------------------|-----------|------------------|-----------|------------------|-----------|--------------------|-----------|
| 1400..D | 11590a | 820..WL | 11050a | BKR-77W43P.. | 53535a | CL-RD8-PD.. | 51650a |
| 1400..R | 11590a | 820..WML | 11050b | BKR-77W43S.. | 53535a | CL-RD8-PF | 51650a |
| 1400V..R | 11600a | 820..WMS | 11050b | BKR-84W31LP.. | 53525b | CON.. | 50600a |
| 1700..D | 11550a | 820..WS | 11050a | BKR-85W44P.. | 53545b | CON-H7816M-S | 51690a |
| 1700..DMS | 11550a | 821..D | 11320b | BKR-87W31LP.. | 53525b | CON-H8716M-S | 51700a |
| 1700..RB | 11560a | 821..R | 11320b | BKR-88W43P.. | 53535b | CRBFTRS.. | 56044a |
| 1700..RC | 11560a | 821..W | 11320b | BKR-93W43LP.. | 53535b | CRBFTRS.. | 56074a |
| 1700..RM | 11550a | 821..WMS | 11320b | BKZ-154-SS | 53580a | CS.. | 56100a |
| 1700..RMS | 11550a | 878..D | 11270a | BPS-4020.. | 54040a | CSHOE.. | 50600a |
| 1874.. | 11140a | 878..RB | 11270a | CAP-10M.. | 53605a | DS-25M52 | 54520a |
| 1874.. | 11450a | 878..RC | 11270a | CAP-25M.. | 54530a | DS-30M52 | 54520a |
| 2080..DM | 30027a | 880..DMS | 11260a | CAP-30M.. | 54530a | DTS.. | 53600a |
| 2080..DMS | 30027a | 880..DS | 11260a | CAP7023-P-YT | 56300b | F-100.. | 51090a |
| 2120.. | 30160a | 880..RMS | 11260a | CAP7023-B30M.. | 56300b | F-26.. | 51090a |
| 2120..DS-PK2 | 30160c | 880..RS | 11260a | CAP8437-P-YT | 56300b | F-50.. | 51090a |
| 2122.. | 30166a | 880T..W | 11260d | CAP-8437-B40M.. | 56300b | F-60.. | 51090a |
| 2124.. | 30165a | 880T..WMS | 11260d | CAP-50M.. | 54530a | F-70.. | 51090a |
| 2190.. | 30235a | 881..DMS | 11090a | CC-16.. | 53610a | F-90.. | 51090a |
| 2250.. | 30395a | 881..DS | 11090a | CC-19-12MK-12MK | 53620a | FT-HDL.. | 54560a |
| 2251.. | 30550a | 881..RMS | 11090a | CC-20.. | 53620a | FT-LOCK.. | 54570a |
| 2256.. | 30740a | 881..RS | 11090a | CC-25-12MK.. | 53620a | FT-MAG.. | 54570a |
| 2256ST.. | 30740b | 881T..W | 11090b | CC-25-14M.. | 53615a | FLSHOE-S330 | 50600b |
| 2260.. | 30715a | 881T..WMS | 11090b | CC-25-15M.. | 53615a | GNP.. | 56300a |
| 2260..DS-PK2 | 30715b | 882..DMS | 11300a | CC-25-16M.. | 53615a | GP.. | 54540a |
| 2351.. | 30760a | 882..DS | 11300a | CC-25-18M.. | 53615a | GRINGK.. | 11090d |
| 2500.. | 30615a | 882..RMS | 11300a | CC-25-20M.. | 53615a | GRP.EPDM | 11440b |
| 2502.. | 30618a | 882..RS | 11300a | CC-42-12MK.. | 53620a | GRP.NBR | 11440a |
| 2508.. | 30640a | 882T..W | 11300b | CC-42-12MQ.. | 53630a | GRPK.NBR | 11440a |
| 2630.. | 30650a | BCK.. | 50600a | CC-52-R.. | 53650a | GRPN..NBR | 11430a |
| 500.. | 56300b | BEC-19 | 56044a | CC-52-S.. | 53645a | GRSHOE-S330 | 50600b |
| 515..DMS | 11130a | BEC-24 | 56074a | CJ.. | 54520a | HDL-117.. | 54560a |
| 515..RMS | 11130a | BEO-19 | 56044a | CL.. | 56090a | HDL-120.. | 54560a |
| 600..RM | 11580a | BEO-24 | 56074a | CL-1020S | 52550a | HDL-94.. | 54560a |
| 800..DMS | 11120a | BK-47W44.. | 53545b | CL-1540S | 52530a | HNG.. | 54550a |
| 800..DMS-F | 11120b | BK-49W31L | 53525b | CL-6065X38 | 50600a | HUB110.. | 11270a |
| 800..DMS-FSS | 11120b | BK-50W43 | 53535b | CL-CON-P.. | 51600a | ICOF-CAN | 57080a |
| 800..RMS | 11120a | BK-55W43L | 53535b | CL-CON-P25.. | 51630a | ICOF-GLASS | 57080a |
| 800..WMS | 11120b | BKE-85W22.. | 53555a | CL-CON-PD.. | 51610a | ICOF-PET | 57080a |
| 800..FSS | 11120b | BKF-35W31L.. | 53555a | CL-CON-R | 51820a | ICOF-SLIDER-CAN | 57080a |
| 815..D | 11040a | BKF-61W38.. | 53560a | CL-D.. | 51660a | ICOF-SLIDER-GLASS | 57080a |
| 815..DMS | 11040b | BKF-65W30L.. | 53555a | CL-H45S | 52521a | ICOF-SLIDER-PET | 57080a |
| 815..DMS-F | 11090d | BKF-66W31L.. | 53515a | CL-H5210.. | 52594a | IND-142B.. | 53635a |
| 815..DS | 11040a | BKF-66W31L.. | 53515b | CL-H7816M.. | 51690a | IND-350R.. | 53635a |
| 815..FSS | 11090d | BKF-79W30.. | 53555a | CL-H8716M.. | 51700a | MODFLEX...A90R | 57035a |
| 815..RMS | 11040b | BKF-89W38.. | 53560a | CL-H9014M.. | 51680a | MODFLEX...A180R | 57055a |
| 8157..DMS | 11100a | BKL..SS | 53580a | CL-RD10-P.. | 51640a | MODFLEX...A90L | 57040a |
| 8157..DMS-F | 11100b | BKR-67W44P.. | 53545b | CL-RD10-P258M | 51650a | MODFLEX...A180L | 57060a |
| 8157..FSS | 11100b | BKR-69W31LP.. | 53525a | CL-RD10-PD.. | 51650a | MODFLEX...A90R-TM | 57045a |
| 820..D | 11200a | BKR-69W31LP.. | 53525b | CL-RD12-P.. | 51640a | MODFLEX...A180R-TM | 57065a |
| 820..DM | 11200b | BKR-69W31LS.. | 53525a | CL-RD12-P258M | 51650a | MODFLEX...A90L-TM | 57050a |
| 820..DMS | 11200a | BKR-69W44P.. | 53545a | CL-RD12-PD.. | 51650a | MODFLEX...A180L-TM | 57070a |
| 820..DS | 11200a | BKR-69W44S.. | 53545a | CL-RD14-P.. | 51640a | MODSORT-AI2... | 57015a |
| 820..RM | 11200b | BKR-70W43P.. | 53535b | CL-RD14-P258M | 51650a | MODSORT-MSGK... | 57020a |
| 820..RMS | 11200b | BKR-72W43P.. | 53535a | CL-RD20-P.. | 51640a | MODSORT-MPES... | 57020a |
| 820..RS | 11200b | BKR-72W43S.. | 53535a | CL-RD8-P.. | 51640a | MODSORT-MPEK | 57020a |
| 820..W | 11050a | BKR-75W43LP.. | 53535b | CL-RD8-P258M | 51650a | MODSORT-MPS... | 57020a |

Legend

Codes ending with .. indicate a group of item descriptions all starting with the code listed. Example: 2122.. (all item descriptions starting with 2122).
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|------------------|-----------|------------------|-----------|--------------------|-----------|--------------------|-----------|
| KMD01.. | 50050a | KNF-50H56.. | 54600a | LF879TAB.. | 11230a | LFG2251FT-P.VG-3 | 30490c |
| KMD02.. | 50050a | KNF-53H45.. | 54600a | LF880.. | 11240a | LFG2251FT-PT.VG | 30490d |
| KMD03.. | 50020a | KNF-80H51.. | 54600a | LF8800P.. | 11240b | LFG2251FT-PT.VG-2 | 30490d |
| KMD04.. | 50020a | KNM-20H13.. | 54610a | LF880M.. | 11220a | LFG2251FT-PT.VG-3 | 30490d |
| KMD05.. | 50050a | KNM-25H16.. | 54610a | LF880TAB.. | 11230a | LFG2251FT-PT.VGS | 30495d |
| KMD06.. | 50020a | KNM-30H21.. | 54610a | LF882M.. | 11280a | LFG2251FT-PT.VGS-2 | 30495d |
| KMD07.. | 50020a | KNM-40H26.. | 54610a | LF882TAB.. | 11290a | LFG2251FT-PT.VGS-3 | 30495d |
| KMD08.. | 50020a | KNM-50H32.. | 54610a | LFB2080FT.. | 30025a | LFG2251FT-TAB.. | 30710a |
| KMD09.. | 50020a | KNM-50H40.. | 54600a | LFB2120FG.. | 30070a | LFG2251LBP.. | 30500a |
| KMD10.. | 50020a | LA100.. | 55585a | LFB2120FT.. | 30050a | LFG2252PT.. | 30481a |
| KMD11.. | 50030a | LA100.. | 55825a | LFB2250FG.. | 30360a | LFG2253FT.. | 30330a |
| KMD12.. | 50030a | LA100-SH.. | 55810a | LFB2250FT.. | 30325a | LFG2260FT-M.. | 30700a |
| KMD21.. | 50040a | LA110.. | 55600a | LFB2253FT.. | 30330a | LFG2351.. | 30745a |
| KMD22.. | 50040a | LA120E-02B.. | 55645a | LFB2253RT.. | 57015a | LFG2351..VG | 30755a |
| KMD23.. | 50040a | LA123H-02B.. | 55645a | LFB2253RTC.. | 30398a | LFG2451TAB.. | 30750a |
| KMD24.. | 50080a | LA40.. | 55525a | LFB2256.. | 30730a | LFG2508FTS.. | 30620a |
| KMD25.. | 50080a | LA50.. | 55540a | LFB2256..VG | 30735a | LFG2551.. | 30745a |
| KMD26.. | 50080a | LA60.. | 55555a | LFG1700 | 11530a | LFG2630FTS.. | 30645a |
| KMD27.. | 50080a | LA60-01.. | 55630a | LFG1702 | 11530a | LFG2651TAB.. | 30750a |
| KMD28.. | 50080a | LA60H-01.. | 55630a | LFG1710.. | 11540a | LFG-COMB2500.. | 30615a |
| KMD31.. | 50040a | LA60S-01.. | 55630a | LFG1710-CTAB.. | 11540a | LFM30.. | 55750a |
| KMD32.. | 50040a | LA80.. | 55570a | LFG2120FG.. | 30070a | LFM40.. | 55750a |
| KMD33.. | 50040a | LA80H.. | 55570a | LFG2120FT.. | 30050a | LFM50.. | 55750a |
| KMD37.. | 50040a | LA80S.. | 55780a | LFG2120FT-PT.. | 30060b | NGE1400V..TAB | 11600a |
| KMD39.. | 50060a | LAF100SH-01.. | 55630a | LFG2120FT-PT.VG-2 | 30100d | LFW1400.. | 11590a |
| KMD40.. | 50060a | LAF123H.. | 55840a | LFG2120FT-PT.VG-3 | 30100d | LFW1400V..TAB | 11600a |
| KMD41.. | 50060a | LAF123H-02B.. | 55660a | LFG2120FT-PT2.. | 30060b | LFW1431.. | 11590a |
| KMD42.. | 50060a | LAS100.. | 55615a | LFG2250FG.. | 30360a | LFW1700 | 11530a |
| KMD48.. | 50060a | LAS120.. | 55615a | LFG2260FG-M.. | 30700a | LFW1701-TAB | 11530a |
| KMD52.. | 50060a | LAS80.. | 55615a | LFG2250FG-PT.. | 30360c | LFW1702 | 11530a |
| KMD61.. | 50050a | LAX100.. | 55810a | LFG2250FG-PT2.. | 30360c | LFW1710.. | 11540a |
| KMD62.. | 50050a | LAX102.. | 55795a | LFG2250FT.. | 30325a | LFW1710-CTAB.. | 11540a |
| KMD64.. | 50101a | LAX123.. | 55840a | LFG2250FT..VG | 30370a | LFW600.. | 11570a |
| KMD66.. | 50101a | LAX123-02B.. | 55660a | LFG2250FT..VG-2 | 30370b | LFW600F | 11580a |
| KMD68.. | 50070a | LB100 | 55735a | LFG2250FT..VG-3 | 30370b | LFW631 TAB | 11580a |
| KMD71.. | 50070a | LB150 | 55735a | LFG2250FT..VGS | 30380a | LMM120.. | 55720a |
| KMD78.. | 50070a | LB200 | 55735a | LFG2250FT..VGS-2 | 30380b | LMM80.. | 55720a |
| KMD82.. | 50070a | LB80 | 55735a | LFG2250FT..VGS-3 | 30380b | LMP125.. | 55705a |
| KMD84.. | 50101a | LF1700 | 11530a | LFG2250FT-K330 | 30310a | LMP80.. | 55705a |
| KMD85.. | 50101a | LF1701-TAB | 11530a | LFG2250FT-PT.. | 30335b | LMPH123.. | 55735a |
| KMD86.. | 50101a | LF1702 | 11530a | LFG2250FT-PT..VG | 30370d | LSHOE-S330 | 50600b |
| KMD87.. | 50101a | LF1843 SS TAB.. | 11470a | LFG2250FT-PT..VG-2 | 30370d | LSS100.. | 55675a |
| KMD88.. | 50101a | LF1843 TAB.. | 11470a | LFG2250FT-PT..VG-3 | 30370d | LSS125.. | 55675a |
| KMD90.. | 50091a | LF820.. | 11190a | LFG2250FT-PT2.. | 30335b | LSS50.. | 55675a |
| KMD91.. | 50091a | LF820P.. | 11190a | LFG2250FT-PT-K330 | 30310a | LSS75.. | 55675a |
| KMD92.. | 50091a | LF821.. | 11320a | LFG2250FT-TAB.. | 30710a | LSSC100.. | 55690a |
| KMD93.. | 50091a | LF8257.. | 11310a | LFG2251FT.. | 30440a | LSSC125.. | 55690a |
| KMD96.. | 50091a | LF828.. | 11210a | LFG2251FT..VG | 30490a | LSSC75.. | 55690a |
| KMD97.. | 50101a | LF831.. | 11190a | LFG2251FT..VG-2 | 30490b | SNB2080.. | 30029a |
| KNF-30H21.. | 54610a | LF843.. | 11460a | LFG2251FT..VG-3 | 30490b | NB2120.. | 30175a |
| KNF-40H26.. | 54610a | LF845.. | 11460a | LFG2251FT..VGS | 30495a | SNB2120.. | 30175a |
| KNF-50H32.. | 54610a | LF877TAB.. | 11230a | LFG2251FT..VGS-2 | 30495b | NGD1873TAB..VG | 11420a |
| KNF-50H39.. | 54600a | LF878TAB.. | 11230a | LFG2251FT..VGS-3 | 30495b | NGE1400.. | 11590a |
| KNF-50H40.. | 54600a | LF879.. | 11240a | LFG2251FT-M.. | 30700a | NGE1431.. | 11590a |
| KNF-50H41.. | 54600a | LF8790P.. | 11240b | LFG2251FT-P.VG | 30490c | NGE1700 | 11530a |
| | | LF879M.. | 11220a | LFG2251FT-P.VG-2 | 30490c | NGE1701-TAB | 11530a |

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| NGE1702 | 11530a | NGE2250FG-P2.. | 30360b | NGE880.. | 11240a | R-60..83-PEG | 51080a |
| NGE1863 TAB.. | 11490a | NGE2250FG-P-K330 | 30340a | NGE8800.. | 11240b | R-60..85-PEB-S | 51110a |
| NGE1863SS TAB.. | 11490a | NGE2250FG-PT.. | 30360c | NGE8800P.. | 11240b | R-60..85-PEG | 51080a |
| NGE1873SS TAB.. | 11470a | NGE2250FG-PT..T | 30350a | NGE880M.. | 11220a | R-9B4.. | 52680a |
| NGE1873SS TAB..GS | 11440b | NGE2250FG-PT2.. | 30360c | NGE880TAB.. | 11230a | RF-11B4.. | 52680a |
| NGE1873SS TAB..GS.. | 11440a | NGE2250FT.. | 30325a | NGE880TAB..VAC43X2 | 11235a | RF-17B6.. | 52680a |
| NGE1873SS TAB..VG | 11420a | NGE2250FT-K330 | 30310a | NGE882LBP TAB.. | 11360a | RF-21B6.. | 52680a |
| NGE1873SS TAB..VG85QH8.5 | 11425a | NGE2250FT-P.. | 30335a | NGE882LBP.. | 11360a | RF-24B6.. | 52680a |
| NGE1873TAB.. | 11470a | NGE2250FT-P2.. | 30335a | NGE882M.. | 11280a | RF-40..86-PEG | 51080a |
| NGE1873TAB..GS | 11440b | NGE2250FT-PT.. | 30335b | NGE882M..VG | 11400a | RF-41..B | 51020a |
| NGE1873TAB..GS.. | 11440a | NGE2250FT-PT..T | 30320a | NGE882TAB.. | 11290a | RF-41..G | 51060a |
| NGE1873TAB..VG | 11420a | NGE2250FT-PT2.. | 30335b | NGE882TAB..VG | 11400a | RF-47..G | 51030a |
| NGE2080FT.. | 30025a | NGE2250FT-PT-K330 | 30310a | NGE-S-K38.. | 11330a | RF-50..28-PEG | 51040a |
| NGE2120FG.. | 30070a | NGE2250FT-PT-K330T | 30320a | PAB-COMB2500.. | 30615a | RF-50..43-PEG | 51050a |
| NGE2120FG-P.. | 30075a | NGE2250FT-TAB.. | 30710a | PC-125110.. | 53640a | RF-50..86-PEG | 51080a |
| NGE2120FG-P2.. | 30075a | NGE2251FT.. | 30440a | PC-25.. | 53610a | RF-50..B | 51030a |
| NGE2120FG-PT.. | 30075b | NGE2251FT-K330 | 30420a | PC-25T.. | 54530a | RF-60..43-PEG | 51050a |
| NGE2120FG-PT2.. | 30075b | NGE2251FT-M.. | 30700a | PC-30T.. | 54530a | RF-60..86-PEG | 51080a |
| NGE2120FT.. | 30030a | NGE2251FT-PT.. | 30450b | PC-9075.. | 53635a | RF-60..G | 51030a |
| NGE2120FT.. | 30050a | NGE2251FT-PT..T | 30430a | PC-KIT | 53640a | RG-105H.. | 52570a |
| NGE2120FT..GB | 30120a | NGE2251FT-PT..TL | 30430a | PC-KIT-0M | 53605a | RG-105H49..3000A | 52572a |
| NGE2120FT..GB-2 | 30120b | NGE2251FT-PT-K330 | 30420a | PC-KIT-19M | 53605a | RG-105H49..3000S | 52571a |
| NGE2120FT..GB-3 | 30120b | NGE2251FT-TAB.. | 30710a | PCO-H7816M-B | 51690a | RG-105H49..348 | 52590a |
| NGE2120FT..VG50 | 30100a | NGE2251LBP.. | 30500a | PCO-H8716M-B | 51700a | RG-105H52..3000S | 52594a |
| NGE2120FT..VG50-2 | 30100b | NGE2251LBP-P.. | 30500b | PCO-H9014M-G | 51680a | RG-105H81..3000A | 52572a |
| NGE2120FT..VG50-3 | 30100b | NGE2252FT.. | 30445a | P-D.. | 51830a | RG-105H81..3000S | 52571a |
| NGE2120FT..VGS50 | 30105a | NGE2252FT.. | 30420a | PE.. | 51830a | RG-165.. | 52520a |
| NGE2120FT-P.. | 30060a | NGE2252FT-PT.. | 30420a | PEN-H7816M-B | 51690a | RG-210H50.. | 52570a |
| NGE2120FT-P..VG50 | 30100c | NGE2253FT..VAC43 | 30398n | PEN-H8716M-B | 51700a | RG-210H50..3000A | 52572a |
| NGE2120FT-P2.. | 30060a | NGE2260FT-M.. | 30700a | PEN-H9014M-G | 51680a | RG-210H50..3000S | 52571a |
| NGE2120FT-PT.. | 30030b | NGE600.. | 11570a | PF.. | 51830a | RG-240.. | 52521a |
| NGE2120FT-PT.. | 30060b | NGE820.. | 11190a | PG.. | 51830a | RG-240H45..3000S | 52530a |
| NGE2120FT-PT..T | 30045a | NGE820P.. | 11190a | PK-D12M110 | 51830a | RG-86H.. | 52570a |
| NGE2120FT-PT..VG50 | 30100d | NGE821.. | 11320a | PM10.. | 51830a | RG-86H49..3000A | 52572a |
| NGE2120FT-PT2.. | 30060b | NGE821..VG | 11410a | PMB.. | 54530a | RG-86H49..3000S | 52571a |
| NGE2120LBP.. | 30110a | NGE821LBP.. | 11370a | PP1873SS TAB..GS.. | 11440b | RG-86H49..348 | 52590a |
| NGE2120M.. | 30720a | NGE8257.. | 11310a | PPW2502DT.. | 30617a | RG-86H81..3000A | 52572a |
| NGE2121FT.. | 30030a | NGE8257..VG | 11410a | PP878TAB..GS.. | 11430b | RG-86H81..3000S | 52571a |
| NGE2121FT.. | 30055a | NGE8257LBP.. | 11370a | PPG2500RR.. | 30610a | RG-86H81..3000S | 52571a |
| NGE2121FT-PT.. | 30030b | NGE828.. | 11210a | R-26..B | 51020a | RG.. | 52550a |
| NGE2122FG.. | 30073a | NGE831.. | 11190a | R-26..G | 51060a | RGC18-86H49.. | 52592a |
| NGE2124FT.. | 30030a | NGE831..VG | 11380a | R-40..83-PEB-S | 51110a | RGC20-105H49.. | 52592a |
| NGE2124FT..VG | 30090a | NGE831LBP.. | 11340a | R-40..83-PEG | 51080a | RGC32-86H49.. | 52593a |
| NGE2124FT-PT.. | 30030b | NGE863.. | 11460a | R-40..85-PEG | 51080a | RGC33-105H49.. | 52593a |
| NGE2124FT-PT..VG | 30090a | NGE877TAB.. | 11230a | R-41..B | 51020a | RH-45.. | 54620a |
| NGE2190FG.. | 30230a | NGE878LBP.. | 11350a | R-41..G | 51060a | RH-65.. | 54620a |
| NGE2190FG.. | 30220a | NGE878TAB.. | 11230a | R-49..G | 51040a | RH-80.. | 54620a |
| NGE2190FG-PT.. | 30220a | NGE878TAB..GS.. | 11430b | R-50..27-PEG | 51040a | RPAD10004 | 55810a |
| NGE2190FT.. | 30210a | NGE878TAB..GS.. | 11430a | R-50..41-PEG | 51050a | RPAD10108 | 55600a |
| NGE2190FT.. | 30200a | NGE878TAB..VG | 11390a | R-50..43-PEG | 51050a | RPAD11207 | 55615a |
| NGE2190FT-PT.. | 30200a | NGE879.. | 11240a | R-50..83-PEB-S | 51110a | RPAD11207 | 55645a |
| NGE2190FT-PT..T | 30215a | NGE879LBP TAB.. | 11350a | R-50..83-PEG | 51080a | RPAD12208 | 55660a |
| NGE2250FG.. | 30360a | NGE879M.. | 11220a | R-50..85-PEB-S | 51110a | RPAD12208 | 55645a |
| NGE2250FG-K330 | 30340a | NGE879M..VG | 11380a | R-50..85-PEG | 51080a | RPAD12208 | 55840a |
| NGE2260FG-M.. | 30700a | NGE879TAB.. | 11230a | R-60..41-PEG | 51050a | RPAD12506 | 55705a |
| NGE2250FG-P.. | 30360b | NGE879TAB..VG | 11390a | R-60..83-PEB-S | 51110a | RPAD12506 | 55720a |

Legend

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| Item description | Page code | Item description | Page code | Item description | Page code | Item description | Page code |
|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| RPAD3206 | 55525a | SP-10944T15 | 53545a | TCHD-R150-R150-S | 54080a | TTM87.. | 50101a |
| RPAD4206 | 55540a | SP-11253T15 | 53545a | TC-R150-S | 54080a | TTM90.. | 50091a |
| RPAD5207 | 55630a | SP-7550.. | 53515a | TEE.. | 54080a | TTM91.. | 50091a |
| RPAD5306 | 55555a | SP-R36T.. | 53535a | TEE-3815-BM10 | 54080a | TTM92.. | 50091a |
| RPAD7207 | 55615a | SPSL815.. | 11020a | TEE-4415-BM10 | 54080a | TTM93.. | 50091a |
| RPAD7207 | 55570a | SPSL881MO.. | 11060a | TEE-4815-BM10 | 54080a | TTM96.. | 50091a |
| RPAD8006 | 55705a | SPT-10.. | 51160a | TE-R.. | 55765a | TTM97.. | 50101a |
| RPAD8006 | 55720a | SPT-11L.. | 51130a | TE-S.. | 55765a | TTMK.. | 50565a |
| RPAD9308 | 55585a | SPT-15.. | 51150a | TME.. | 52670a | TUBE-R10S-6000 | 53605a |
| RPAD9308 | 55795a | SPT-16.. | 51160a | TME-K.. | 52671a | TWP-S4030.. | 55765c |
| RPAD9308 | 55615a | SPT-2.. | 51130a | TOP-20P | 53585a | UC.. | 56300a |
| RPAD9308 | 55825a | SPT-4.. | 51130a | TOP-23P.. | 53585a | UCFB.. | 56140a |
| RR-47..83-PEB-S | 51110a | SPT-4.. | 51160a | TOP-23S.. | 53585a | UCFG.. | 56080a |
| RR-47..83-PEG | 51080a | SPT-84.. | 51120a | TOP-24P.. | 53585a | UCFH.. | 56020a |
| RR-47..85-PEB-S | 51110a | SPT-84.. | 51160a | TOP-24S.. | 53585a | UCFH.. | 56030a |
| RR-47..85-PEG | 51080a | SQL.. | 56130a | TOP-25S.. | 53585a | UCFH.. | 56042a |
| RR-57..27-PEG | 51040a | SR800.. | 11120a | TOP-40P.. | 53585a | UCFH..ME.. | 56040a |
| RR-57..41-PEG | 51050a | SS802.. | 11120a | TOP-40S.. | 53585a | UCFHXX.. | 56042a |
| RR-57..43-PEG | 51050a | SS812.. | 11030a | TOP-60S.. | 53585a | UCFL.. | 56020a |
| RR-57..83-PEB-S | 51110a | SS881M.. | 11060a | TOP-90S.. | 53585a | UCFL..ME.. | 56040a |
| RR-57..83-PEG | 51080a | SS881MO.. | 11060a | TTM01.. | 50050a | UFLX.. | 56020a |
| RR-57..85-PEB-S | 51110a | SSA805.. | 11120a | TTM02.. | 50050a | UFLQ.. | 56072a |
| RR-57..85-PEG | 51080a | SSA815.. | 11030b | TTM03.. | 50020a | UFLZ..ME.. | 56040a |
| RR-67..41-PEG | 51050a | SSA8810.. | 11080a | TTM04.. | 50050a | VG-009M-01 | 51630a |
| RR-67..83-PEB-S | 51110a | SSA8810TAB.. | 11070a | TTM05.. | 50030a | VG-011.. | 51620a |
| RR-67..83-PEG | 51080a | SSE515.. | 11130a | TTM06.. | 50020a | VG-012-01 | 51620a |
| RR-67..85-PEB-S | 51110a | SSE805.. | 11120a | TTM07.. | 50020a | VG-013.. | 51620a |
| RR-67..85-PEG | 51080a | SSE805..VG | 11180a | TTM08.. | 50020a | VG-016-02 | 51630a |
| RRF-40..86-PEG | 51080a | SSE815.. | 11030a | TTM09.. | 50020a | VG-018M.. | 51630a |
| RRF-50..86-PEG | 51080a | SSE8157.. | 11100a | TTM10.. | 50020a | VG-022-01 | 51630a |
| RRF-57..28-PEG | 51040a | SSE8157..VG | 11180a | TTM11.. | 50030a | VG-113SM-08G | 51820a |
| RRF-57..43-PEG | 51050a | SSE8157TAB..VG | 11180a | TTM12.. | 50030a | VG-1568M.. | 52611a |
| RRF-60..86-PEG | 51080a | SSE8810.. | 11080a | TTM21.. | 50040a | VG-213.. | 53565a |
| RRF-67..43-PEG | 51050a | SSE881..VG | 11170a | TTM22.. | 50040a | VG-213R-TOP.. | 53590a |
| RSHOE-S330 | 50600b | SSE881M.. | 11060a | TTM23.. | 50040a | VG-222JO.. | 51810a |
| S800.. | 11030b | SSE881MO.. | 11060a | TTM31.. | 50040a | VG-223R.. | 53565a |
| S815.. | 11030b | SSE881MO.. | 11160a | TTM32.. | 50040a | VG-223R-TOP.. | 53590a |
| SCREW21M5-SS | 30615a | SSE8810.. | 11080a | TTM33.. | 50040a | VG-245.. | 53575a |
| SF-CD1.. | 54540a | SSE8810TAB.. | 11070a | TTM37 | 50040a | VG-253.. | 53570a |
| SF-SPS.. | 54540a | SS8810TAB.. | 11070a | TTM39.. | 50060a | VG-254.. | 53570a |
| SHOE-15L105.. | 51150a | SSE881RTAB.. | 11070a | TTM40.. | 50060a | VG-3050.. | 54020a |
| SHOE-48.. | 52611a | SSE881TAB..VG | 11170a | TTM41.. | 50060a | VG-3051.. | 54050a |
| SHOE-49L26 | 52592a | SSE8857M.. | 11110a | TTM42.. | 50060a | VG-3052.. | 54050a |
| SHOE-49L42 | 52593a | SSE8857M..VG | 11160a | TTM48.. | 50060a | VG-3055.. | 54050a |
| SHOE-53L102.. | 51150a | SSE8857TAB.. | 11110a | TTM52.. | 50060a | VG-3070.. | 54060a |
| SHOE-84L244.. | 51170a | SSEL815.. | 11020a | TTM61.. | 50050a | VG-3080.. | 54060a |
| SHOE-84L68.. | 51160a | SSEL815.. | 11030a | TTM62.. | 50050a | VG-3087.. | 54060a |
| SHOE-85L244.. | 51170a | SSEL881MO.. | 11060a | TTM64.. | 50101a | VG-3110.. | 54070a |
| SHOE-88L244.. | 51170a | SSER814..VG | 11150a | TTM66.. | 50101a | VG-3115.. | 54070a |
| SHOE-89L152.. | 51170a | SSER815..VG | 11150a | TTM68.. | 50070a | VG-60.. | 53615a |
| SHOE-94.. | 52611a | SSER815TAB..VG | 11150a | TTM71.. | 50070a | VG-619.. | 53610a |
| SK38..DMS | 11330a | SSL812.. | 11030a | TTM78.. | 50070a | VG-620.. | 53615a |
| SK38..RMS | 11330a | SSL881MO.. | 11060a | TTM82.. | 50070a | VG-632.. | 54560a |
| SMB-60.. | 53625a | SSSR815.. | 11030a | TTM84.. | 50101a | VG-633.. | 54550a |
| SP-10049.. | 53535a | TC-20.. | 53610a | TTM85.. | 50101a | VG-634.. | 54550a |
| | | TC-60.. | 53625a | TTM86.. | 50101a | VG-641T.. | 53590a |

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| Item description | Page code | Item description | Page code | Item description | Page code | Item description | Page code |
|-------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| VG-686A-1.25-3M | 52611a | VG-JSL075-125.. | 50530a | VG-Q-75-40.. | 53595a | | |
| VG-687-1.4-3M | 52612a | VG-JSL075-188.. | 50530b | VG-QSC.. | 53595a | | |
| VG-687-3.3-3M | 52612a | VG-L20M.. | 50520a | VG-QT-01 | 53595a | | |
| VG-687FLEX-1.4-3M | 52610a | VG-LGSF.. | 51520a | VG-S1020M.. | 51660b | | |
| VG-687H-1.4-3M | 52611a | VG-LGSR.. | 51520a | VG-S1040M.. | 50560a | | |
| VG-687H-3.3-3M | 52611a | VG-LGST.. | 51520b | VG-S330M.. | 50580a | | |
| VG-687LDB-M8 | 52612a | VG-LSSF.. | 51520a | VG-S4-330M.. | 50580a | | |
| VG-687NP-1.4M | 52612a | VG-LSSM.. | 51520a | VG-S4P330C.. | 50580b | | |
| VG-687SP | 52611a | VG-LSSMT.. | 51520c | VG-S4-S3020.. | 50550a | | |
| VG-688-1.4-3M | 52614a | VG-LSSR.. | 51520a | VG-S640M.. | 50560a | | |
| VG-688-3.3-3M | 52614a | VG-LSST.. | 51520b | VG-S840M.. | 50560a | | |
| VG-688FLEX-1.4-3M | 52610a | VG-LSST.. | 51520a | VG-SC.. | 54630a | | |
| VG-688H-1.4-3M | 52613a | VG-LSST.. | 51520c | VG-SCL.. | 54630a | | |
| VG-688H-3.3-3M | 52613a | VG-LSSWF.. | 51520a | VG-SD.. | 51660a | | |
| VG-750-10 | 50550b | VG-LSSWF.. | 51520b | VG-SP1040M.. | 50560a | | |
| VG-A2520.. | 51740b | VG-MBG-50-NS-10 | 50570a | VG-SP330C.. | 50580b | | |
| VG-A330M.. | 50580a | VG-NG110.. | 51720a | VG-SP640M.. | 50560a | | |
| VG-A600A.. | 51740a | VG-NG125.. | 51720a | VG-SP840M.. | 50560a | | |
| VG-A840.. | 52650a | VG-NG47.. | 51720a | VG-SSF-HT-10 | 51520a | | |
| VG-ABG.. | 51730a | VG-NG49.. | 51720a | VG-SSMT.. | 51520c | | |
| VG-AP330C.. | 50580b | VG-NG50.. | 51720a | VG-SSTS.. | 51520b | | |
| VG-BP.. | 54030a | VG-NG81.. | 51720a | VG-T425M.. | 50550b | | |
| VG-BPT.. | 54030b | VG-NG91.. | 51720a | VG-TP.. | 54030a | | |
| VG-BPV.. | 54030b | VG-P1040M.. | 50560a | VG-U3041.. | 50550a | | |
| VG-BWS-125-10 | 50570a | VG-P105.. | 50650a | VG-U3042.. | 50550a | | |
| VG-DB83M-B-10 | 51710a | VG-P10MRD.. | 51710a | VG-U3043.. | 50550a | | |
| VG-F203M.. | 50550b | VG-P12MRD.. | 51710a | VG-U4045.. | 50550a | | |
| VG-F205M.. | 50550b | VG-P14BC.. | 50650a | VG-J23.. | 50520a | | |
| VG-F205M.. | 51120a | VG-P14HD.. | 50650b | VG-Z18M.. | 50520a | | |
| VG-F206M.. | 51120a | VG-P18BC.. | 50650a | VG-Z20M.. | 50520a | | |
| VG-F253M.. | 50550b | VG-P18CC-100 | 50530a | VG-Z20WM.. | 50520a | | |
| VG-F303M.. | 50550b | VG-P18HD.. | 50650b | VG-Z21.. | 50520a | | |
| VG-F403.. | 50550a | VG-P2520.. | 51740b | VT1701T.. | 50170a | | |
| VG-F403M.. | 50550b | VG-P316BC.. | 50650a | VT1710CT.. | 50170a | | |
| VG-F503M.. | 50550b | VG-P316HD.. | 50650b | VT1713CT.. | 50180a | | |
| VG-F603M.. | 50550b | VG-P330C.. | 50580a | VT1873T.. | 50160a | | |
| VG-F703M.. | 50550b | VG-P330CW.. | 50610a | VT880B.. | 50130a | | |
| VG-G1020M.. | 51660b | VG-P330M.. | 50560a | VT880T.. | 50110a | | |
| VG-GD.. | 51660a | VG-P516BC.. | 50650b | VT882.. | 50140a | | |
| VG-H7816M.. | 51690a | VG-P640M.. | 50560a | VT882B.. | 50150a | | |
| VG-H14022M.. | 51703a | VG-P650M.. | 50560a | VTC880.. | 50120a | | |
| VG-H8716M.. | 51700a | VG-P680M.. | 50560a | VTR880B.. | 50130a | | |
| VG-H9014M.. | 51680a | VG-P7GABC.. | 50650a | VTR882B.. | 50150a | | |
| VG-J100-125T.. | 50530a | VG-P7GAHD.. | 50650b | W1700 | 11530a | | |
| VG-J100-188.. | 50530b | VG-P813.. | 51740a | | | | |
| VG-J21M.. | 50520a | VG-P816.. | 51740a | | | | |
| VG-J23M.. | 50520a | VG-P822.. | 51740a | | | | |
| VG-JEL-078.. | 50530a | VG-P834.. | 51740a | | | | |
| VG-JL19M.. | 50520a | VG-P840DBM.. | 51710a | | | | |
| VG-JS100-125.. | 50530a | VG-P840M.. | 50560a | | | | |
| VG-JS100-188.. | 50530b | VG-P8MRD.. | 51710a | | | | |
| VG-JS150-125.. | 50530a | VG-PBG5.. | 51730a | | | | |
| VG-JS150-18.. | 50530b | VG-PBG7.. | 51730a | | | | |
| VG-JS200-125.. | 50530a | VG-PD.. | 51660b | | | | |
| VG-JS200-188.. | 50530b | VG-PM10BC.. | 50650b | | | | |
| VG-JS3-075-125.. | 50530a | VG-PM4BC.. | 50650a | | | | |

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