## RULLI GOMMATI AMMORTIZZATORI D89/De133 E D89/De159

Sono costituiti da rulli base D89 [mm] monoblocco d'acciaio e da speciali anelli di gomma elastica ed antiabrasiva, calettati a pressione sul tubo.
La geometria del profilo degli anelli è appositamente studiata per sviluppare il migliore effetto ammortizzante all'impatto esercitato sui rulli e sul tappeto da materiali di media-grande pezzatura che cadono dall'alto, ad esempio nei punti di carico.
Sono altresì impiegati come rulli di ritorno nei trasportatori a nastro funzionanti con materiali umidi, appiccicosi od aggressivi, per prevenire depositi ed incrostazioni sui tubi d'acciaio o fenomeni di corrosione.
Gli anelli, nell'esecuzione standard, sono di gomma antiabrasiva durezza 65 ÷ 70 Shore A [°].
Il pacco degli anelli è contenuto sul tubo da rondelle elastiche di arresto; la loro facile sostituibilità consente,all'occorrenza, il ripristino del diametro esterno De del rullo.
Temperatura d'esercizio normale TN: –5 ÷ +80 [°C].

## *RUBBER IMPACT ROLLERS D89/De133 AND D89/De159*

*These consist of D89 [mm] basic enbloc steel rollers and special rubber rings abrasion resistant and with elastic properties, pressure-fitted to the tube.*

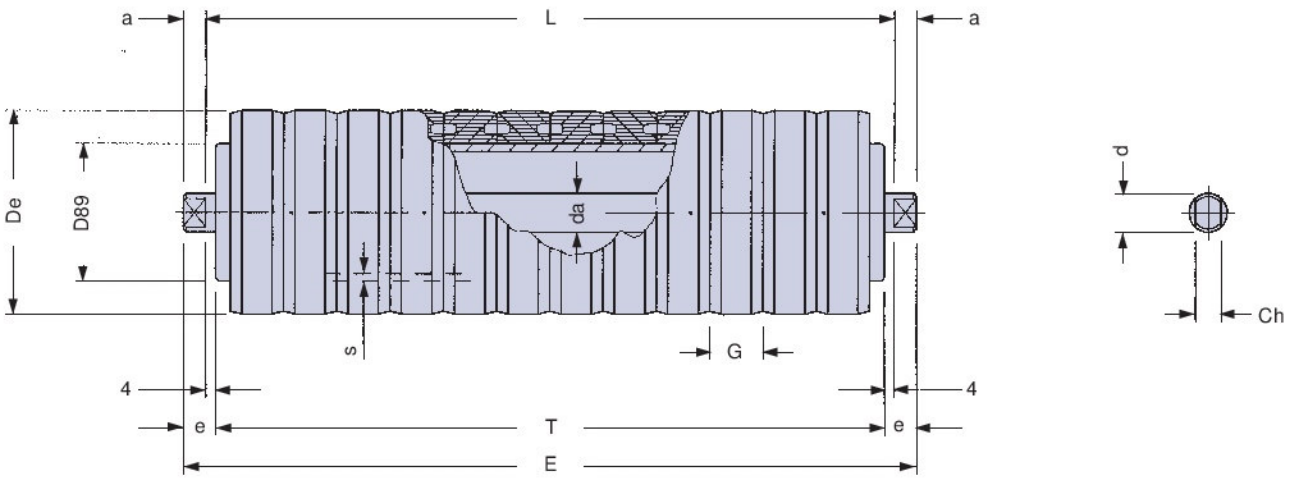
*The size of the rollers is specifically designed to absorb the shocks caused by medium to large materials falling from above, for example in the load areas, on rollers and conveyors.*

*They are also used as return rollers in systems for moist, sticky or aggressive materials, to prevent crusts forming on the steel rollers and corrosion.*

*Standard rings are made with abrasion resistant rubber of hardness 65 ÷ 70 Shore A [°].*
*The ring pack is held in place by elastic stop washers.*

*They can be replaced without difficulty to maintain the outside diameter De of the roller.*

*Normal operating temperature TN: –5 ÷ + 80 [°C].*




Dimensioni in mm — *Dimensions in mm*

Tabella 23 — **RULLI GOMMATI AMMORTIZZATORI SERIE 1** ***RUBBER IMPACT ROLLERS SERIES 1*** — *Table 23*

| tipo *type* | De | da | rullo base *basic roller* | | | | | | | | | L | | anello di gomma *rubber ring* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | tipo *type* | D | s | d | Ch | a | e | T | E | cuscinetto *bearing* | min. | max. | tipo *type* | G | peso kg *weight kg* |
| **20.1.11.16** | 133 | 20 | **20.0.11** | 89 | 3 | 20 | 14-17 | 9 | 13 | L–8 | L+18 | 6204 | 100 | 2400 | **1.11.16** | 35 | 0,260 |
| **25.1.11.16** | | 25 | **25.0.11** | | | 25 | 17-18 | 12 | 16 | | L+24 | 6205 | 135 | 2600 | | | |
| **25.2.1.11.16** | | | **25.2.0.11** | | | | | | | | | 6305 | | | | | |
| **30.1.11.16** | | 30 | **30.0.11** | | | 30 | 22 | | | | | 6206 | | | | | |
| **20.1.11.17** | 159 | 20 | **20.0.11** | 89 | 3 | 20 | 14-17 | 9 | 13 | L–8 | L+18 | 6204 | 130 | 2400 | **1.11.17** | 50 | 0,531 |
| **20.2.1.11.17** | | | **20.2.0.11** | | | | | | | | | 6304 | | | | | |
| **25.1.11.17** | | 25 | **25.0.11** | | | 25 | 17-18 | 12 | 16 | | L+24 | 6205 | 130 | 2600 | | | |
| **25.2.1.11.17** | | | **25.2.0.11** | | | | | | | | | 6305 | | | | | |
| **30.1.11.17** | | 30 | **30.0.11** | | | 30 | 22 | | | | | 6206 | | | | | |

Tabella 24

## LUNGHEZZE E PESI DEI RULLI *ROLLERS LENGTHS AND WEIGHTS*

Table 24

| nastro *belt* N | tipo *type* | De | D | da | N | | | λ° | | | λ° | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L1 | peso di 1 rullo kg *weight of 1 roller kg* | peso rotante kg *rotat. weight kg* | L2 | peso totale di 2 rulli kg *total weight of 2 rollers kg* | peso rotante totale kg *total rotating weight kg* | L3 | peso totale di 3 rulli kg *total weight of 3 rollers kg* | peso rotante totale kg *total rotating weight kg* |
| 650 | 20.1.11.16 | 133 | 89 | 20 | 758 | 12,907 | 11,073 | 388 | 13,560 | 11,338 | 258 | 13,776 | 11,406 |
| 700 | 20.1.11.16 | | | 20 | 808 | 13,608 | 11,651 | 416 | 14,608 | 12,240 | 308 | 16,659 | 13,920 |
| | 25.1.11.16 | | | 25 | | 14,978 | 11,655 | | 16,272 | 12,628 | | 18,699 | 14,505 |
| 800 | 20.1.11.16 | | | 20 | 958 | 15,973 | 13,645 | 473 | 16,708 | 14,044 | 323 | 17,190 | 14,304 |
| | 25.1.11.16 | | | 25 | | 17,550 | 13,649 | | 18,538 | 14,432 | | 19,311 | 14,886 |
| 900 | 20.1.11.16 | | | 20 | 1058 | 17,636 | 15,061 | 538 | 18,808 | 15,846 | 358 | 18,765 | 15,654 |
| | 25.1.11.16 | | | 25 | | 19,351 | 15,065 | | 20,802 | 16,234 | | 21,012 | 16,239 |
| 1000 | 20.1.11.16 | | | 20 | 1158 | 19,299 | 16,477 | 608 | 20,564 | 17,638 | 388 | 20,340 | 17,007 |
| | 25.1.11.16 | | | 25 | | 21,155 | 16,481 | | 22,752 | 17,646 | | 22,710 | 17,589 |
| | 25.1.11.16 | | | | | 21,564 | 16,832 | | 23,576 | 18,348 | | 23,946 | 18,645 |
| 1200 | 20.1.11.16 | | | 20 | 1408 | 23,326 | 19,887 | 708 | 23,890 | 20,470 | 473 | 25,062 | 21,066 |
| | 25.1.11.16 | | | 25 | | 25,524 | 19,891 | | 26,354 | 20,478 | | 27,807 | 21,648 |
| | 25.2.1.11.16 | | | | | 25,936 | 20,242 | | 27,178 | 21,180 | | 29,043 | 22,704 |
| | 30.1.11.16 | | | 30 | | 37,965 | 20,194 | | 37,670 | 21,084 | | 38,094 | 22,560 |
| 1400 | 25.1.11.16 | | | 25 | 1608 | 29,126 | 22,723 | 808 | 29,956 | 23,310 | 538 | 31,203 | 24,351 |
| | 25.2.1.11.16 | | | | | 29,538 | 23,074 | | 30,780 | 24,012 | | 32,439 | 25,407 |
| | 30.1.11.16 | | | 30 | | 43,505 | 23026 | | 43,210 | 23,916 | | 43,236 | 25,263 |
| 1600 | 25.1.11.16 | | | 25 | 1808 | 32,728 | 25,555 | 908 | 33,558 | 26,142 | 608 | 34,128 | 26,469 |
| | 25.2.1.11.16 | | | | | 33,140 | 25,906 | | 34,382 | 26,844 | | 35,364 | 27,522 |
| | 30.1.11.16 | | | 30 | | 49,042 | 25,858 | | 48,750 | 26,748 | | 42,195 | 27,378 |

Tabella 25

## LUNGHEZZE E PESI DEI RULLI *ROLLERS LENGTHS AND WEIGHTS*

Table 25

| nastro *belt* N | tipo *type* | De | D | da | N | | | λ° | | | λ° | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L1 | peso di 1 rullo kg *weight of 1 roller kg* | peso rotante kg *rotat. weight kg* | L2 | peso totale di 2 rulli kg *total weight of 2 rollers kg* | peso rotante totale kg *total rotating weight kg* | L3 | peso totale di 3 rulli kg *total weight of 3 rollers kg* | peso rotante totale kg *total rotating weight kg* |
| 1000 | 20.1.11.17 | 159 | 89 | 20 | 1158 | 21,778 | 19,203 | 608 | 23,926 | 21,000 | 388 | 23,691 | 20,358 |
| | 20.2.1.11.17 | | | | | 22,899 | 19,872 | | 24,402 | 21,066 | | 24,405 | 21,030 |
| | 25.1.11.17 | | | 25 | | 24,514 | 19,843 | | 26,114 | 21,008 | | 26,061 | 20,940 |
| | 25.2.1.11.17 | | | | | 24,926 | 20,194 | | 26,938 | 21,710 | | 27,297 | 21,996 |
| | 30.1.11.17 | | | 30 | | 34,532 | 20,146 | | 35,492 | 21,614 | | 33,732 | 21,852 |
| 1200 | 20.2.1.11.17 | | | 20 | 1408 | 27,761 | 24,117 | 708 | 28,292 | 24,462 | 473 | 28,380 | 24,342 |
| | 25.1.11.17 | | | 25 | | 29,721 | 24,088 | | 30,280 | 24,404 | | 30,411 | 24,252 |
| | 25.2.1.11.17 | | | | | 30,133 | 24,439 | | 31,104 | 25,106 | | 31,647 | 25,308 |
| | 30.1.11.17 | | | 30 | | 42,162 | 24,391 | | 41,596 | 25,010 | | 40,698 | 25,164 |
| 1400 | 25.1.11.17 | | | 25 | 1608 | 33,887 | 27,484 | 808 | 34,446 | 27,800 | 538 | 35,433 | 28,581 |
| | 25.2.1.11.17 | | | | | 34,299 | 27,835 | | 35,270 | 28,502 | | 36,669 | 29,637 |
| | 30.1.11.17 | | | 30 | | 48,266 | 27,787 | | 47,700 | 28,406 | | 47,466 | 29,493 |
| 1600 | 25.1.11.17 | | | 25 | 1808 | 38,053 | 30,880 | 908 | 38,612 | 31,196 | 608 | 39,171 | 31,515 |
| | 25.2.1.11.17 | | | | | 38,465 | 31,231 | | 39,436 | 31,898 | | 40,404 | 32,565 |
| | 30.1.11.17 | | | 30 | | 54,367 | 31,183 | | 53,804 | 31,802 | | 53,238 | 32,412 |
| 1800 | 25.2.1.11.17 | | | 25 | 2008 | 42,631 | 34,627 | 1008 | 44,664 | 36,356 | 673 | 44,145 | 35,496 |
| | 30.1.11.17 | | | 30 | | 60,474 | 34,579 | | 60,970 | 36,260 | | 59,010 | 35,352 |