

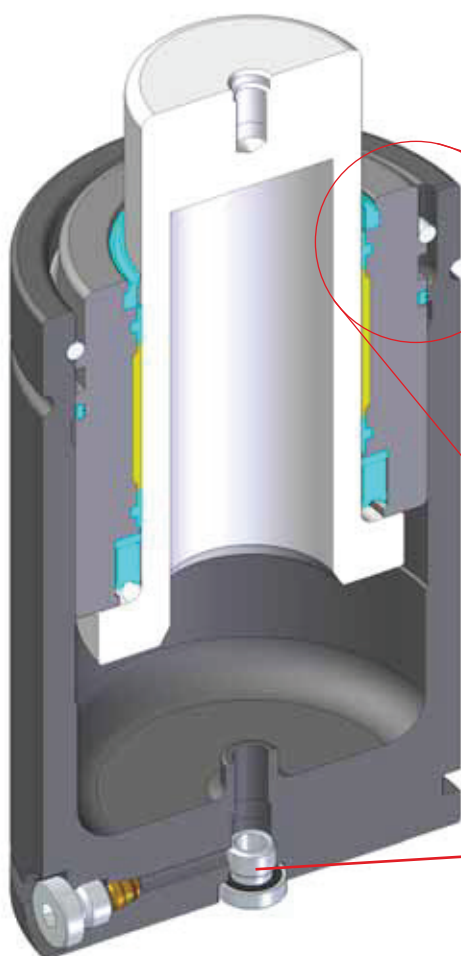
AR SERIES

PED
97/23/EC

| | | |
|--------|---------------|------------|
| ISO | Ford | Renault |
| VDI | Mercedes Benz | Volkswagen |
| BMW | PSA | Nissan |
| Suzuki | Mazda | |

VEP AUTOMATION
made by Special Springs

OLD Code **AR-xxx-yy**
NEW Code **AR-xxx-yy.2** (AR from 1.5 to 2.5)
NEW Code **AR-xxx-yy.1** (AR from 5 to 100)




Over stroke bushing

Uncontrolled
Speed
Active
Safety

Over
Pressure
Active
Safety

Over
Stroke
Active
Safety

Range chart

| Model | Body Ø | | Stroke Cu | | Initial force | |  | | | |
|---------|------------|------------|-----------|--------------|---------------|-------|---|------|-------|------|
| | mm | inch | mm | inch | daN | lb | OPAS | OSAS | SKUDO | USAS |
| AR 1,5 | 32 | 1,26 | 10 - 125 | 0,39 - 4,92 | 170 | 382 | ✓ | ✓ | - | ✓ |
| AR 2,5 | 38 | 1,50 | 10 - 125 | 0,39 - 4,92 | 260 | 585 | ✓ | ✓ | - | ✓ |
| ARF 2,5 | M 38 X 1,5 | M 38 X 1,5 | 10 - 125 | 0,39 - 4,92 | 260 | 585 | ✓ | ✓ | - | ✓ |
| AR 5 | 45 | 1,77 | 13 - 160 | 0,51 - 6,30 | 470 | 1057 | ✓ | ✓ | - | ✓ |
| AR 7,5 | 50 | 1,97 | 13 - 300 | 0,51 - 11,81 | 740 | 1664 | ✓ | ✓ | - | ✓ |
| AR 15 | 75 | 2,95 | 25 - 300 | 0,98 - 11,81 | 1530 | 3440 | ✓ | ✓ | - | ✓ |
| AR 30 | 95 | 3,74 | 25 - 300 | 0,98 - 11,81 | 2945 | 6621 | ✓ | ✓ | - | ✓ |
| AR 50 | 120 | 4,72 | 25 - 300 | 0,98 - 11,81 | 4980 | 11195 | ✓ | ✓ | - | ✓ |
| AR 75 | 150 | 5,91 | 25 - 300 | 0,98 - 11,81 | 7540 | 16950 | ✓ | ✓ | - | ✓ |
| AR 100 | 195 | 7,68 | 25 - 300 | 0,98 - 11,81 | 10600 | 23830 | ✓ | ✓ | - | ✓ |



How
to
Order

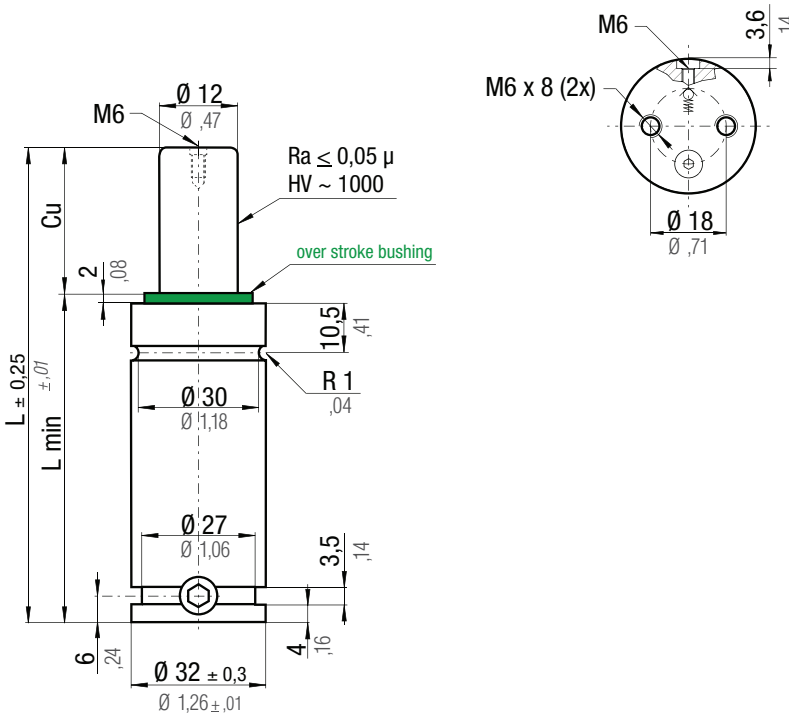
AR 15-50.1 - C
- E

Codice cilindro autonomo
Self-contained cylinder code
Kode des eingeständiges Zylinder
Code du cylindre autonome
Codigo del cilindro autónomo
Codigo do cilindro autónomo

Collegabile con tubi, cilindro fornito scarico e senza valvola unidirezionale
Linkable with hoses, cylinder supplied without pressure and oneway valve
Anschlussfähig mit Leitungen, Zylinder geliefert ohne Druck und RückschlagVentil
Connectable avec tubes, ressort fourni sans pression ni valve unidirectionnelle
Connectable con tubos, cilindro suministrado sin presión y sin válvula unidireccional
Acompláveis com tubos, cilindro fornecidos sem pressão e sem válvula unidireccional

Collegabile EASY MANIFOLD, fornito scarico + guarnizione di collegamento
Linkable EASY MANIFOLD, supplied without pressure + connecting seal
Anschlussfähig EASY MANIFOLD, geliefert ohne Druck + Verbindungsdichtung
Connectable EASY MANIFOLD, fourni sans pression + joint de connexion
Connectable EASY MANIFOLD, suministrado sin presión + junta de connexion
Acompláveis EASY MANIFOLD, fornecidos sem pressão + vedantes de conexão

| | | |
|---------------|-------------------------|--------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | 39D 878 (VW) |
| VDI 3003 | E24.54.815.G (PSA) | |
| B2 4006 (BMW) | EM24.54.700 (Renault) | |



Info

* 100% Cu - Polytropic end forces

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist



Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé

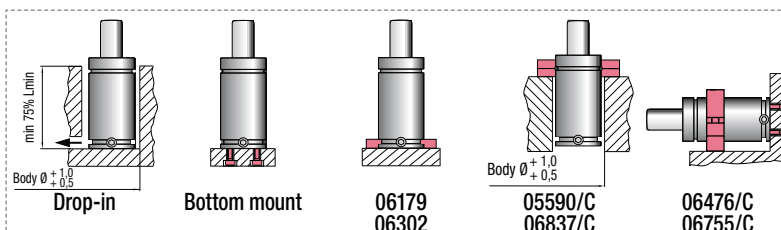
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O novo código irá ser fornecido apenas quando o antigo esgotar stock

AR
ARF

| | | | | | | | | | | |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|---|---------------------------------------|-----------------------------|---------------------------------------|
| | N₂ | °F 32 - 176 | °C 0 - 80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 1,13 cm ² 0,175 in ² | SPM ~ 80 - 100 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR1,5.2 |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|---|---------------------------------------|-----------------------------|---------------------------------------|

| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | Cat. | | |
|------------------|------------------|------|------|------|-------|-------|------|--|----|-----|-----|-----------------|-----------------|------|------|---|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | ~Kg | ~lb | |
| AR 1,5 - 10 . 1 | AR 1,5 - 10 . 2 | 10 | 0,39 | 70 | 2,76 | 60 | 2,36 | 170 382 150 bar 2175 psi ± 5% + 20 °C +68 °F | | 209 | 470 | 11,6 | 0,71 | 0,28 | 0,62 | - |
| AR 1,5 - 13 . 1 | AR 1,5 - 13 . 2 | 12,7 | 0,51 | 75,4 | 2,97 | 62,7 | 2,47 | | | 214 | 481 | 13,0 | 0,79 | 0,29 | 0,64 | - |
| AR 1,5 - 16 . 1 | AR 1,5 - 16 . 2 | 16 | 0,63 | 82 | 3,23 | 66 | 2,60 | | | 217 | 488 | 15,0 | 0,92 | 0,30 | 0,66 | - |
| AR 1,5 - 25 . 1 | AR 1,5 - 25 . 2 | 25 | 0,98 | 100 | 3,94 | 75 | 2,95 | | | 225 | 506 | 20,2 | 1,23 | 0,33 | 0,73 | - |
| AR 1,5 - 38 . 1 | AR 1,5 - 38 . 2 | 38 | 1,50 | 126 | 4,96 | 88 | 3,46 | | | 232 | 522 | 27,6 | 1,68 | 0,36 | 0,79 | - |
| AR 1,5 - 50 . 1 | AR 1,5 - 50 . 2 | 50 | 1,97 | 150 | 5,91 | 100 | 3,94 | | | 236 | 531 | 34,4 | 2,10 | 0,40 | 0,88 | - |
| AR 1,5 - 63 . 1 | AR 1,5 - 63 . 2 | 63,5 | 2,48 | 177 | 6,97 | 113,5 | 4,47 | | | 238 | 535 | 47,1 | 2,87 | 0,44 | 0,97 | - |
| AR 1,5 - 80 . 1 | AR 1,5 - 80 . 2 | 80 | 3,15 | 210 | 8,27 | 130 | 5,12 | | | 241 | 542 | 51,5 | 3,14 | 0,49 | 1,08 | - |
| AR 1,5 - 100 . 1 | AR 1,5 - 100 . 2 | 100 | 3,94 | 250 | 9,84 | 150 | 5,91 | | | 243 | 546 | 62,9 | 3,84 | 0,55 | 1,21 | - |
| AR 1,5 - 125 . 1 | AR 1,5 - 125 . 2 | 125 | 4,92 | 300 | 11,81 | 175 | 6,89 | | | 245 | 551 | 77,1 | 4,70 | 0,64 | 1,41 | - |



HOW TO ORDER

(10 pcs) AR 1,5-50.2
(10 pcs) AR 1,5-50.2-C

AR 2,5



| | | |
|---------------|-------------------------|----------------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | 39D 878 (VW) |
| VDI 3003 | E24.54.815.G (PSA) | K 32 S (Nissan) |
| B2 4006 (BMW) | EM24.54.700 (Renault) | SES-K 5404e (Suzuki) |



Info

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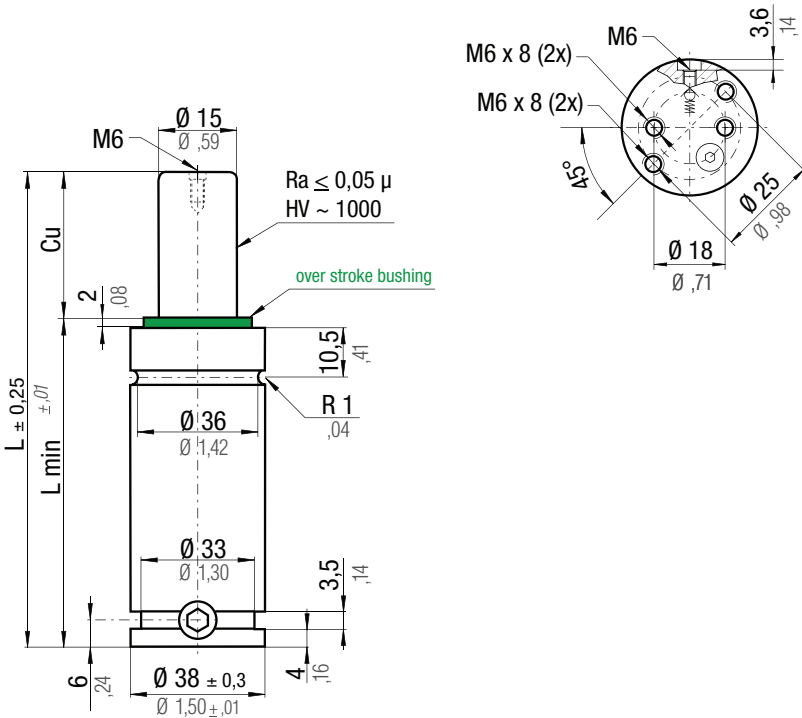
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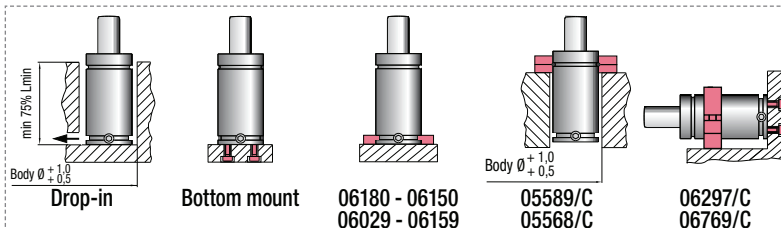
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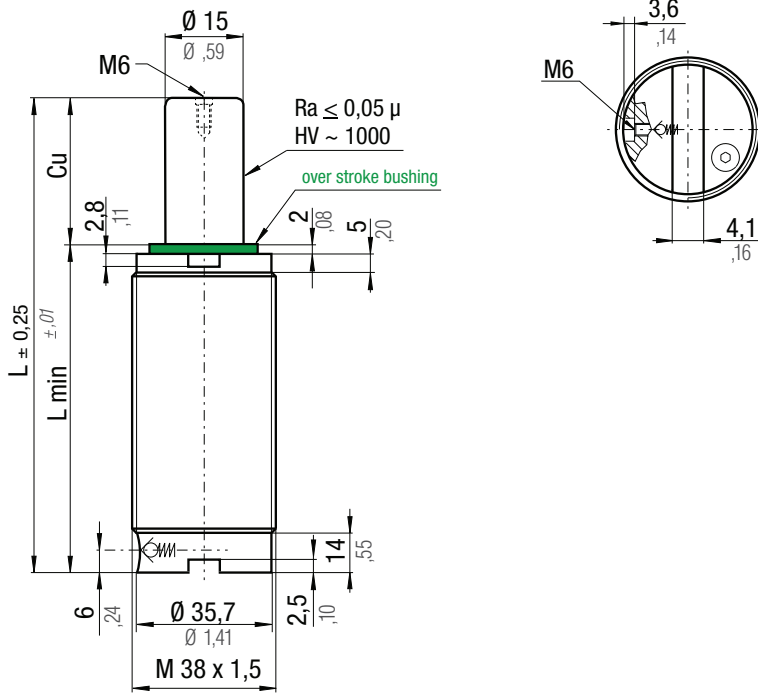
| | | | | | | | |
|--|--|-------------------------------------|-----------------------------------|---|---------------------------------------|-----------------------------|---------------------------------------|
| | ΔP $\pm 0,33 \% / ^\circ C$ | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 1,77 cm ² 0,274 in ² | SPM ~ 80 - 100 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR2,5.2 |
|--|--|-------------------------------------|-----------------------------------|---|---------------------------------------|-----------------------------|---------------------------------------|

| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | Cat. | | | |
|------------------|------------------|------|------|------|-------|-------|------|-----|-----|-------|------|-----------------|-----------------|------|------|---|---|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | ~Kg | ~lb | | |
| AR 2,5 - 10 . 1 | AR 2,5 - 10 . 2 | 10 | 0,39 | 70 | 2,76 | 60 | 2,36 | 260 | 585 | 341 | 767 | 14,5 | 0,88 | 0,40 | 0,88 | - | |
| AR 2,5 - 13 . 1 | AR 2,5 - 13 . 2 | 12,7 | 0,50 | 75,4 | 2,97 | 62,7 | 2,47 | | | 345 | 776 | 17,9 | 1,09 | 0,41 | 0,90 | - | - |
| AR 2,5 - 16 . 1 | AR 2,5 - 16 . 2 | 16 | 0,63 | 82 | 3,23 | 66 | 2,60 | | | 351 | 789 | 20,4 | 1,24 | 0,43 | 0,95 | - | - |
| AR 2,5 - 19 . 1 | AR 2,5 - 19 . 2 | 19 | 0,75 | 88 | 3,46 | 69 | 2,72 | | | 357 | 803 | 22,7 | 1,38 | 0,45 | 0,99 | - | - |
| AR 2,5 - 25 . 1 | AR 2,5 - 25 . 2 | 25 | 0,98 | 100 | 3,94 | 75 | 2,95 | | | 366 | 823 | 27,3 | 1,67 | 0,48 | 1,06 | - | - |
| AR 2,5 - 38 . 1 | AR 2,5 - 38 . 2 | 38 | 1,50 | 126 | 4,96 | 88 | 3,46 | | | 379 | 852 | 37,4 | 2,28 | 0,54 | 1,19 | - | - |
| AR 2,5 - 50 . 1 | AR 2,5 - 50 . 2 | 50 | 1,97 | 150 | 5,91 | 100 | 3,94 | | | 387 | 870 | 46,6 | 2,84 | 0,60 | 1,32 | - | - |
| AR 2,5 - 63 . 1 | AR 2,5 - 63 . 2 | 63,5 | 2,50 | 177 | 6,97 | 113,5 | 4,47 | | | 391 | 879 | 57,0 | 3,48 | 0,66 | 1,46 | - | - |
| AR 2,5 - 80 . 1 | AR 2,5 - 80 . 2 | 80 | 3,15 | 210 | 8,27 | 130 | 5,12 | | | 397 | 892 | 69,3 | 4,23 | 0,74 | 1,63 | - | - |
| AR 2,5 - 100 . 1 | AR 2,5 - 100 . 2 | 100 | 3,94 | 250 | 9,84 | 150 | 5,91 | | | 401 | 901 | 85,1 | 5,19 | 0,81 | 1,79 | - | - |
| AR 2,5 - 125 . 1 | AR 2,5 - 125 . 2 | 125 | 4,92 | 300 | 11,81 | 175 | 6,89 | 404 | 908 | 104,4 | 6,37 | 0,98 | 2,16 | - | - | | |



HOW TO ORDER

(10 pcs) AR 2,5-50.2
(10 pcs) AR 2,5-50.2-C

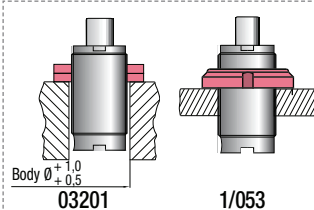


Info

* 100% Cu - Polytropic end forces

AR
ARF

| CODE | Cu | | L | | L min | | F0 | | F1 | | V0 | | Maintenance kit | | |
|-------------------|------|------|------|-------|-------|------|-----|-----|-------|------|-----------------|-----------------|-----------------|------|------|
| | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | ~Kg | ~lb | Cat. |
| ARF 2,5 - 10 . 1 | 10 | 0,39 | 70 | 2,76 | 60 | 2,36 | 260 | 585 | 341 | 767 | 14,5 | 0,88 | 0,37 | 0,81 | - |
| ARF 2,5 - 13 . 1 | 12,7 | 0,50 | 75,4 | 2,97 | 62,7 | 2,47 | | | 345 | 776 | 17,9 | 1,09 | 0,38 | 0,84 | - |
| ARF 2,5 - 16 . 1 | 16 | 0,63 | 82 | 3,23 | 66 | 2,60 | | | 351 | 789 | 20,4 | 1,24 | 0,39 | 0,86 | - |
| ARF 2,5 - 19 . 1 | 19 | 0,75 | 88 | 3,46 | 69 | 2,72 | | | 357 | 803 | 22,7 | 1,38 | 0,42 | 0,92 | - |
| ARF 2,5 - 25 . 1 | 25 | 0,98 | 100 | 3,94 | 75 | 2,95 | | | 366 | 823 | 27,3 | 1,67 | 0,44 | 0,97 | - |
| ARF 2,5 - 38 . 1 | 38 | 1,50 | 126 | 4,96 | 88 | 3,46 | | | 379 | 852 | 37,4 | 2,28 | 0,50 | 1,10 | - |
| ARF 2,5 - 50 . 1 | 50 | 1,97 | 150 | 5,91 | 100 | 3,94 | | | 387 | 870 | 46,6 | 2,84 | 0,55 | 1,21 | - |
| ARF 2,5 - 63 . 1 | 63,5 | 2,50 | 177 | 6,97 | 113,5 | 4,47 | | | 391 | 879 | 57,0 | 3,48 | 0,63 | 1,39 | - |
| ARF 2,5 - 80 . 1 | 80 | 3,15 | 210 | 8,27 | 130 | 5,12 | | | 397 | 892 | 69,3 | 4,23 | 0,70 | 1,54 | - |
| ARF 2,5 - 100 . 1 | 100 | 3,94 | 250 | 9,84 | 150 | 5,91 | | | 401 | 901 | 85,1 | 5,19 | 0,75 | 1,65 | - |
| ARF 2,5 - 125 . 1 | 125 | 4,92 | 300 | 11,81 | 175 | 6,89 | 404 | 908 | 104,4 | 6,37 | 0,93 | 2,05 | - | | |



HOW TO ORDER

(10 pcs) ARF2,5-50.1
(10 pcs) ARF2,5-50.1-C

AR 5



| | | |
|-------------------------|-----------------------|----------------------|
| ISO 11901 - 1 | E24.54.815.G (PSA) | PG23D (Mazda) |
| VDI 3003 | EM24.54.700 (Renault) | SES-K 5404e (Suzuki) |
| B2 4006 (BMW) | 39D 878 (VW) | |
| B8 3180 220 000 001(MB) | K 32 S (Nissan) | |



Info

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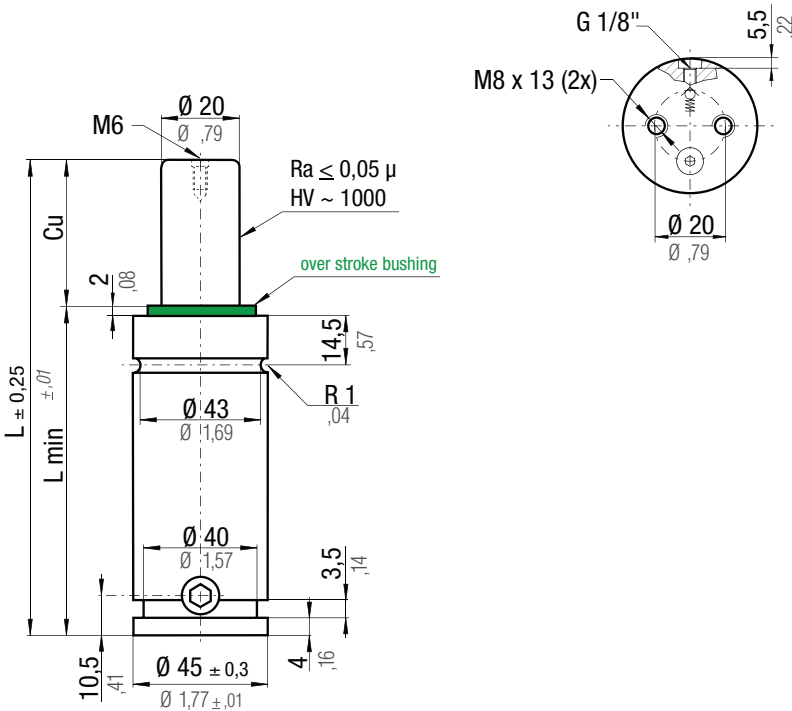
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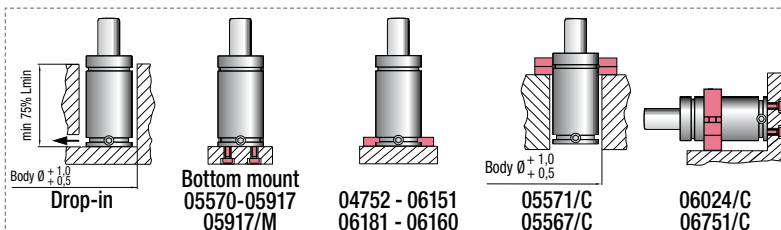
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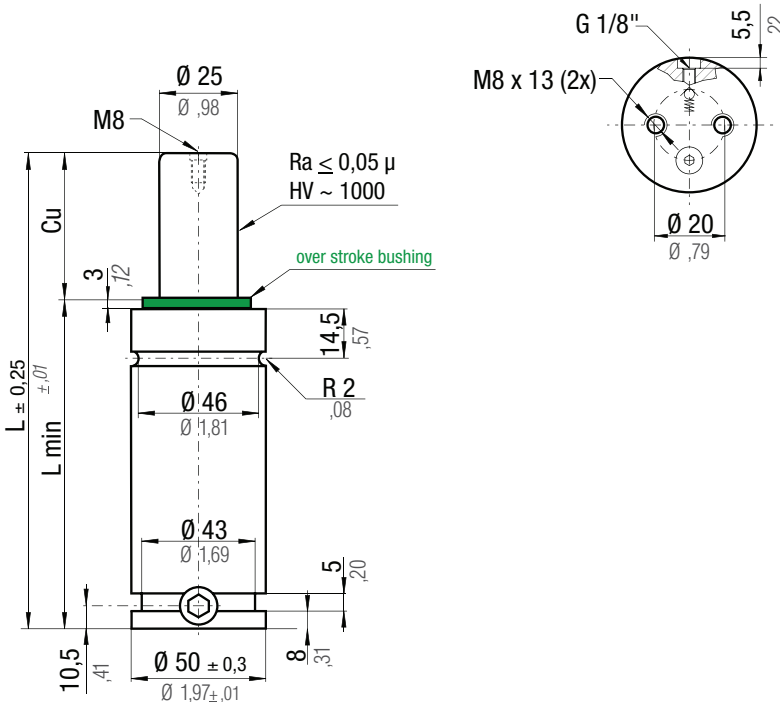
| N ₂ | | °F 32 - 176 | °C 0 - 80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 3,14 cm ² 0,487 in ² | SPM ~ 40 - 80 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR5.1 | | | | | | |
|----------------|--------------|----------------------|--------------------|-------------------|------------------------------|----------------------------|--|---|----------------------|------------------------------|------|-----------------|-----------------|------|------|------|
| CODE | NEW | Cu | | L | | L min | | F0 Initial force | | F1 End force * | | V0 | | ~Kg | ~lb | Cat. |
| PHASING OUT | NEW | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | | | |
| AR 5 - 10 | AR 5 - 10.1 | 10 | 0,39 | 105 | 4,13 | 95 | 3,74 | 470 1057 150 bar 2175 psi ± 5% + 20 °C +68 °F | | 673 | 1513 | 18,0 | 1,10 | 0,90 | 1,98 | - |
| AR 5 - 13 | AR 5 - 13.1 | 12,7 | 0,50 | 110,4 | 4,35 | 97,7 | 3,85 | | | 702 | 1578 | 20,0 | 1,22 | 1,00 | 2,20 | - |
| AR 5 - 25 | AR 5 - 25.1 | 25 | 0,98 | 135 | 5,31 | 110 | 4,33 | | | 759 | 1706 | 33,0 | 2,01 | 1,09 | 2,40 | - |
| AR 5 - 38 | AR 5 - 38.1 | 38 | 1,50 | 161 | 6,34 | 123 | 4,84 | | | 792 | 1780 | 46,0 | 2,81 | 1,20 | 2,65 | - |
| AR 5 - 50 | AR 5 - 50.1 | 50 | 1,97 | 185 | 7,28 | 135 | 5,31 | | | 810 | 1821 | 58,0 | 3,54 | 1,29 | 2,84 | - |
| AR 5 - 63 | AR 5 - 63.1 | 63,5 | 2,50 | 212 | 8,35 | 148,5 | 5,85 | | | 819 | 1841 | 72,0 | 4,39 | 1,38 | 3,04 | - |
| AR 5 - 80 | AR 5 - 80.1 | 80 | 3,15 | 245 | 9,65 | 165 | 6,50 | | | 834 | 1875 | 89,0 | 5,43 | 1,50 | 3,31 | - |
| AR 5 - 100 | AR 5 - 100.1 | 100 | 3,94 | 285 | 11,22 | 185 | 7,28 | | | 843 | 1895 | 109,0 | 6,65 | 1,64 | 3,62 | - |
| AR 5 - 125 | AR 5 - 125.1 | 125 | 4,92 | 335 | 13,19 | 210 | 8,27 | | | 850 | 1911 | 135,0 | 8,24 | 1,85 | 4,08 | - |
| AR 5 - 160 | AR 5 - 160.1 | 160 | 6,30 | 405 | 15,94 | 245 | 9,65 | | | 857 | 1927 | 170,0 | 10,37 | 2,10 | 4,63 | - |



HOW TO ORDER

(10 pcs) AR 5-50.1
(10 pcs) AR 5-50.1-C

| | | |
|--------------------|-------------------------|----------------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | K 32 S (Nissan) |
| VDI 3003 | E24.54.815.G (PSA) | PG23D (Mazda) |
| B2 4006 (BMW) | EM24.54.700 (Renault) | SES-K 5404e (Suzuki) |
| W-DX35-6203 (Ford) | 39D 878 (VW) | |



Info

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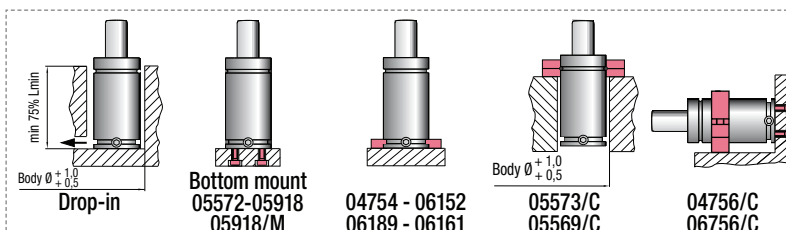
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| | | | | | | | | | | |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|-----------------------------|---------------------------------------|
| | N₂ | °F 32 - 176 | °C 0 - 80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 4,91 cm ² 0,761 in ² | SPM ~ 15 - 50 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR7,5.1 |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|---|--------------------------------------|-----------------------------|---------------------------------------|

| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | Cat. | | |
|--------------|------------------|------|-------|-------|-------|-------|-------|-------------------------|------|------|------|-----------------|-----------------|------|------|---|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | ~Kg | ~lb | |
| AR 7,5 - 13 | AR 7,5 - 13 . 1 | 12,7 | 0,50 | 120,4 | 4,74 | 107,7 | 4,24 | 740 | 1664 | 1016 | 2284 | 40,0 | 2,44 | 1,28 | 2,82 | - |
| AR 7,5 - 25 | AR 7,5 - 25 . 1 | 25 | 0,98 | 145 | 5,71 | 120 | 4,72 | | | 1122 | 2522 | 58,0 | 3,54 | 1,38 | 3,04 | - |
| AR 7,5 - 38 | AR 7,5 - 38 . 1 | 38 | 1,50 | 171 | 6,73 | 133 | 5,24 | 150 bar 2175 psi | | 1192 | 2680 | 77,0 | 4,70 | 1,48 | 3,26 | - |
| AR 7,5 - 50 | AR 7,5 - 50 . 1 | 50 | 1,97 | 195 | 7,68 | 145 | 5,71 | | | 1235 | 2776 | 95,0 | 5,80 | 1,58 | 3,48 | - |
| AR 7,5 - 63 | AR 7,5 - 63 . 1 | 63,5 | 2,50 | 222 | 8,74 | 158,5 | 6,24 | ± 5% + 20 °C + 68 °F | | 1263 | 2839 | 115,0 | 7,02 | 1,69 | 3,73 | - |
| AR 7,5 - 80 | AR 7,5 - 80 . 1 | 80 | 3,15 | 255 | 10,04 | 175 | 6,89 | | | 1299 | 2920 | 140,0 | 8,54 | 1,82 | 4,00 | - |
| AR 7,5 - 100 | AR 7,5 - 100 . 1 | 100 | 3,94 | 295 | 11,61 | 195 | 7,68 | | | 1324 | 2976 | 169,0 | 10,31 | 1,99 | 4,39 | - |
| AR 7,5 - 125 | AR 7,5 - 125 . 1 | 125 | 4,92 | 345 | 13,58 | 220 | 8,66 | | | 1346 | 3026 | 206,0 | 12,57 | 2,19 | 4,83 | - |
| AR 7,5 - 160 | AR 7,5 - 160 . 1 | 160 | 6,30 | 415 | 16,34 | 255 | 10,04 | | | 1391 | 3127 | 252,0 | 15,37 | 2,52 | 5,56 | - |
| AR 7,5 - 200 | AR 7,5 - 200 . 1 | 200 | 7,87 | 495 | 19,49 | 295 | 11,61 | | | 1434 | 3224 | 302,0 | 18,42 | 2,92 | 6,44 | - |
| AR 7,5 - 250 | AR 7,5 - 250 . 1 | 250 | 9,84 | 595 | 23,43 | 345 | 13,58 | | | 1472 | 3309 | 365,0 | 22,27 | 3,40 | 7,50 | - |
| AR 7,5 - 300 | AR 7,5 - 300 . 1 | 300 | 11,81 | 695 | 27,36 | 395 | 15,55 | | | 1501 | 3374 | 428,0 | 26,11 | 3,90 | 8,60 | - |



HOW TO ORDER

(10 pcs) AR 7,5-50.1
(10 pcs) AR 7,5-50.1-C

AR 15



| | | |
|--------------------|-------------------------|----------------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | K 32 S (Nissan) |
| VDI 3003 | E24.54.815.G (PSA) | PG23D (Mazda) |
| B2 4006 (BMW) | EM24.54.700 (Renault) | SES-K 5404e (Suzuki) |
| W-DX35-6203 (Ford) | 39D 878 (VW) | |



Info

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page 164

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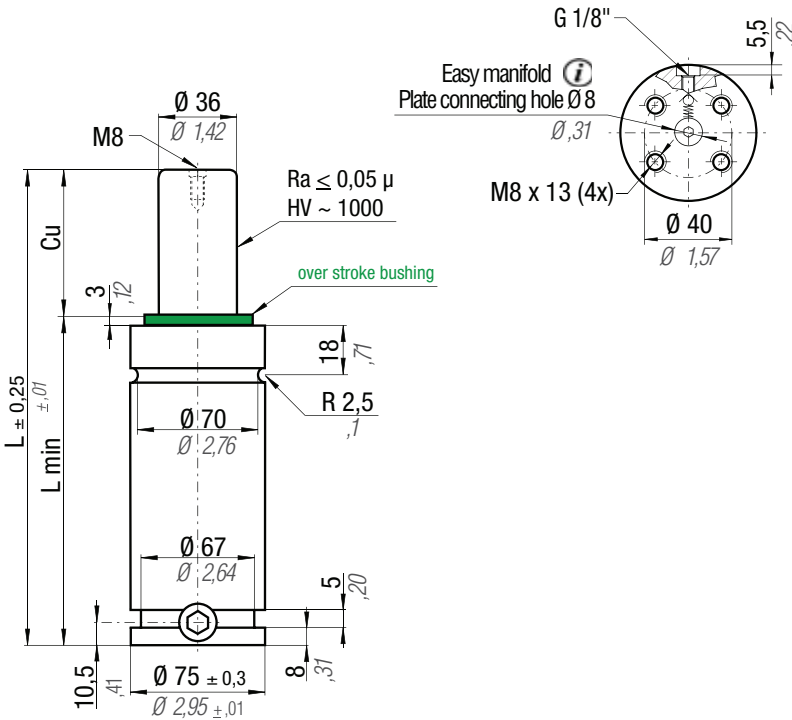
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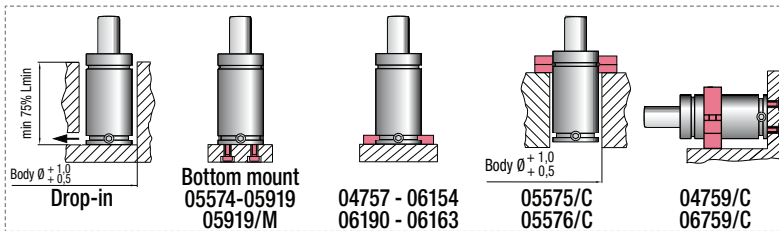


For Easy manifold replacement units quote product code marked on your cylinders.



| | | | | | | | | | |
|--|------------------|----------------|---------------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|
| | °F 32 -176 | °C 0 -80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 10,18 cm ² 1,578 in ² | SPM ~ 15 - 50 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR15.1 Cu 13 ÷ 80 39BMAR15.1H Cu 100 ÷ 300 |
|--|------------------|----------------|---------------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|

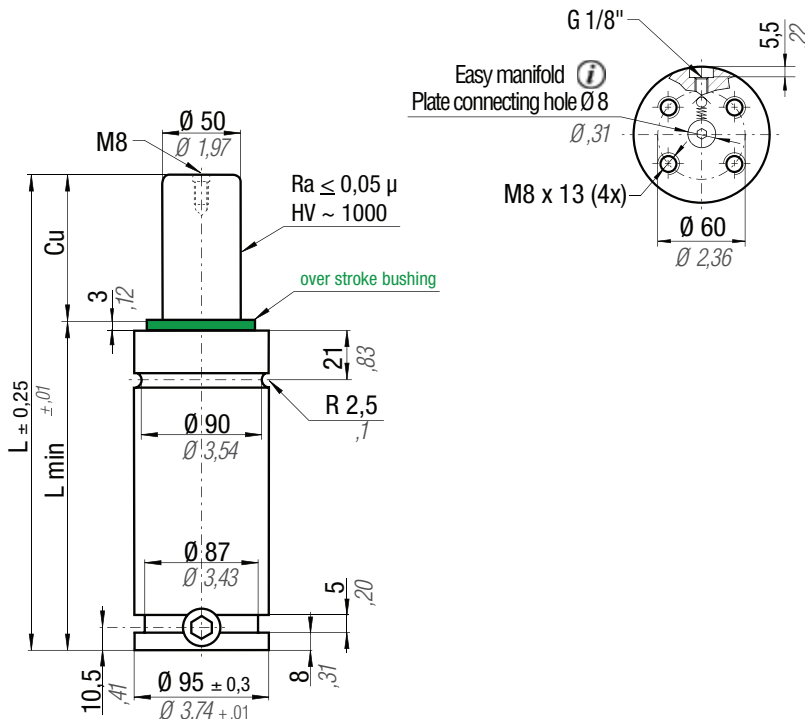
| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | Weight | | Cat. |
|-------------|-----------------|------|-------|-----|-------|-------|-------|------|------|-------|-------|-----------------|-----------------|--------|-------|------|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | ~Kg | ~lb | |
| PHASING OUT | | | | | | | | | | | | | | | | |
| - | AR 15 - 13 . 1 | 13 | 0,51 | 135 | 5,31 | 122 | 4,80 | 1530 | 3440 | 2016 | 4532 | 84,0 | 5,12 | 3,26 | 7,19 | - |
| AR 15 - 25 | AR 15 - 25 . 1 | 25 | 0,98 | 160 | 6,30 | 135 | 5,31 | | | 2174 | 4887 | 118,0 | 7,20 | 3,47 | 7,65 | - |
| AR 15 - 38 | AR 15 - 38 . 1 | 38 | 1,50 | 186 | 7,32 | 148 | 5,83 | | | 2287 | 5141 | 152,0 | 9,27 | 3,66 | 8,07 | - |
| AR 15 - 50 | AR 15 - 50 . 1 | 50 | 1,97 | 210 | 8,27 | 160 | 6,30 | | | 2355 | 5294 | 183,0 | 11,16 | 3,84 | 8,47 | - |
| AR 15 - 63 | AR 15 - 63 . 1 | 63,5 | 2,50 | 237 | 9,33 | 173,5 | 6,83 | | | 2400 | 5395 | 218,0 | 13,30 | 4,05 | 8,93 | - |
| AR 15 - 80 | AR 15 - 80 . 1 | 80 | 3,15 | 270 | 10,63 | 190 | 7,48 | | | 2455 | 5519 | 261,0 | 15,92 | 4,30 | 9,48 | - |
| AR 15 - 100 | AR 15 - 100 . 1 | 100 | 3,94 | 310 | 12,20 | 210 | 8,27 | | | 2495 | 5609 | 313,0 | 19,09 | 4,60 | 10,14 | - |
| AR 15 - 125 | AR 15 - 125 . 1 | 125 | 4,92 | 360 | 14,17 | 235 | 9,25 | | | 2529 | 5685 | 377,0 | 23,00 | 4,98 | 10,98 | - |
| AR 15 - 160 | AR 15 - 160 . 1 | 160 | 6,30 | 430 | 16,93 | 270 | 10,63 | | | 2562 | 5760 | 468,0 | 28,55 | 5,51 | 12,15 | - |
| AR 15 - 200 | AR 15 - 200 . 1 | 200 | 7,87 | 510 | 20,08 | 310 | 12,20 | | | 2592 | 5827 | 568,0 | 34,65 | 6,14 | 13,54 | - |
| AR 15 - 250 | AR 15 - 250 . 1 | 250 | 9,84 | 610 | 24,02 | 360 | 14,17 | 2652 | 5962 | 673,0 | 41,05 | 7,10 | 15,65 | - | | |
| AR 15 - 300 | AR 15 - 300 . 1 | 300 | 11,81 | 710 | 27,95 | 410 | 16,14 | 2696 | 6061 | 778,0 | 47,46 | 8,05 | 17,75 | I | | |



HOW TO ORDER

- (10 pcs) AR 15-50.1
- (10 pcs) AR 15-50.1-C
- (10 pcs) AR 15-50.1-E

| | | |
|--------------------|-------------------------|----------------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | K 32 S (Nissan) |
| VDI 3003 | E24.54.815.G (PSA) | PG23D (Mazda) |
| B2 4006 (BMW) | EM24.54.700 (Renault) | SES-K 5404e (Suzuki) |
| W-DX35-6203 (Ford) | 39D 878 (VW) | |



Info

* 100% Cu - Polytropic end forces

page 164

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist



Le nouveau code sera fourni uniquement lorsque le vieux stock sera écoulé

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

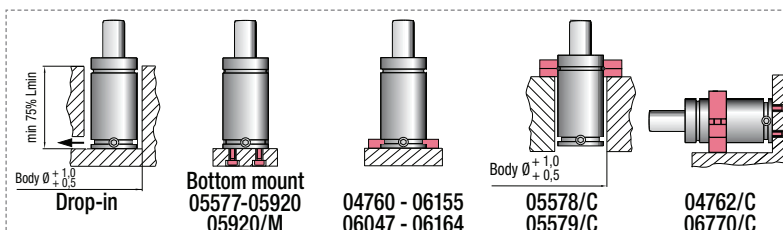


For Easy manifold replacement units quote product code marked on your cylinders.

AR ARF

| | | | | | | | | | | |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|
| | N₂ | °F 32 - 176 | °C 0 - 80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 19,63 cm ² 3,043 in ² | SPM ~ 15 - 50 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR30.1 Cu 13 ÷ 80 39BMAR30.1H Cu 100 ÷ 300 |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|

| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | ~Kg | ~lb | Cat. |
|-------------|-----------------|------|-------|-----|-------|-------|-------|------|-------|--------|-------|-----------------|-----------------|-------|-------|------|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | | | |
| PHASING OUT | | | | | | | | | | | | | | | | |
| - | AR 30 - 13 . 1 | 13 | 0,51 | 145 | 5,71 | 132 | 5,20 | 2945 | 6621 | 3917 | 8806 | 156,0 | 9,52 | 5,65 | 12,46 | - |
| AR 30 - 25 | AR 30 - 25 . 1 | 25 | 0,98 | 170 | 6,69 | 145 | 5,71 | | | 4286 | 9635 | 212,0 | 12,93 | 6,00 | 13,23 | - |
| AR 30 - 38 | AR 30 - 38 . 1 | 38 | 1,50 | 196 | 7,72 | 158 | 6,22 | | | 4559 | 10249 | 265,0 | 16,17 | 6,29 | 13,87 | - |
| AR 30 - 50 | AR 30 - 50 . 1 | 50 | 1,97 | 220 | 8,66 | 170 | 6,69 | | | 4732 | 10638 | 315,0 | 19,22 | 6,57 | 14,48 | - |
| AR 30 - 63 | AR 30 - 63 . 1 | 63,5 | 2,50 | 247 | 9,72 | 183,5 | 7,22 | | | 4852 | 10908 | 372,0 | 22,69 | 6,90 | 15,21 | - |
| AR 30 - 80 | AR 30 - 80 . 1 | 80 | 3,15 | 280 | 11,02 | 200 | 7,87 | | | 4997 | 11234 | 439,0 | 26,78 | 7,30 | 16,09 | - |
| AR 30 - 100 | AR 30 - 100 . 1 | 100 | 3,94 | 320 | 12,60 | 220 | 8,66 | | | 5105 | 11476 | 522,0 | 31,84 | 7,78 | 17,15 | - |
| AR 30 - 125 | AR 30 - 125 . 1 | 125 | 4,92 | 370 | 14,57 | 245 | 9,65 | | | 5200 | 11690 | 625,0 | 38,13 | 8,38 | 18,47 | - |
| AR 30 - 160 | AR 30 - 160 . 1 | 160 | 6,30 | 440 | 17,32 | 280 | 11,02 | | | 5292 | 11897 | 770,0 | 46,97 | 9,22 | 20,33 | I |
| AR 30 - 200 | AR 30 - 200 . 1 | 200 | 7,87 | 520 | 20,47 | 320 | 12,60 | | | 5362 | 12054 | 936,0 | 57,10 | 10,19 | 22,47 | II |
| AR 30 - 250 | AR 30 - 250 . 1 | 250 | 9,84 | 620 | 24,41 | 370 | 14,57 | 5424 | 12194 | 1142,0 | 69,66 | 11,40 | 25,13 | II | | |
| AR 30 - 300 | AR 30 - 300 . 1 | 300 | 11,81 | 720 | 28,35 | 420 | 16,54 | 5525 | 12421 | 1318,0 | 80,40 | 12,84 | 28,31 | II | | |



HOW TO ORDER

- (10 pcs) AR 30-50.1
- (10 pcs) AR 30-50.1-C
- (10 pcs) AR 30-50.1-E

AR 50



| | | |
|--------------------|-------------------------|----------------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | K 32 S (Nissan) |
| VDI 3003 | E24.54.815.G (PSA) | PG23D (Mazda) |
| B2 4006 (BMW) | EM24.54.700 (Renault) | SES-K 5404e (Suzuki) |
| W-DX35-6203 (Ford) | 39D 878 (VW) | |



Info

* 100% Cu - Polytropic end forces

page 164

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

Der neue Kode wird geliefert nur wenn der alte nicht mehr im Lager ist



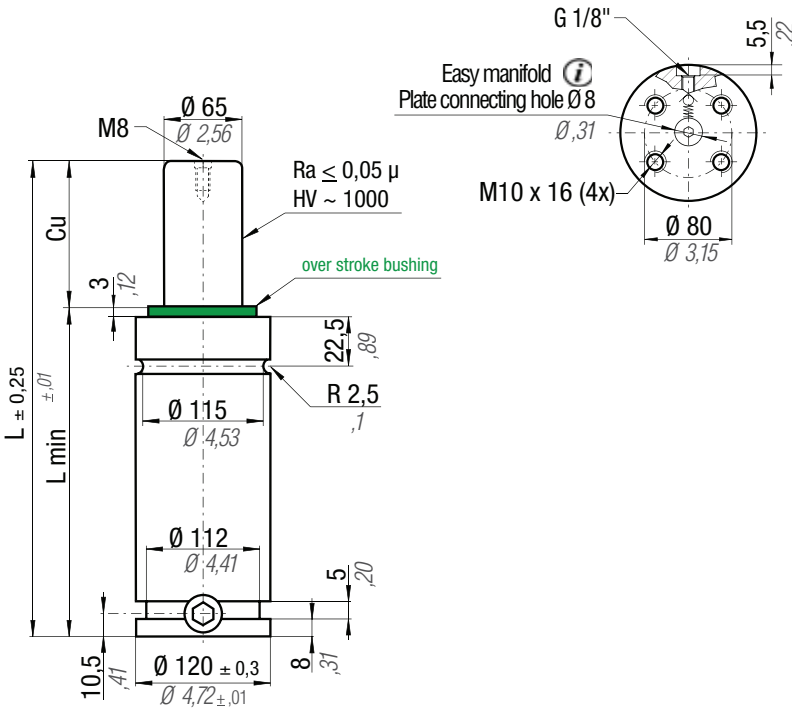
Le nouveau code sera fourni uniquement lorsque le vieux stock sera écolué

El nuevo código será suministrado sólo cuando el viejo está fuera de stock

O novo código irá ser fornecido apenas quando o antigo esgotar stock

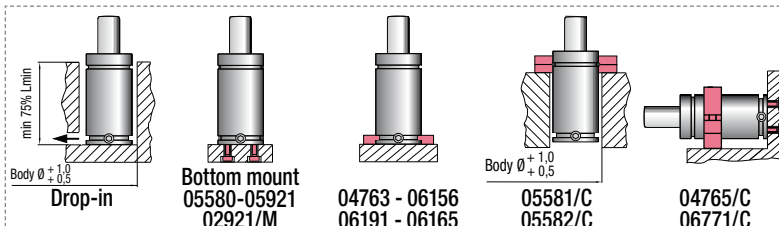


For Easy manifold replacement units quote product code marked on your cylinders.



| | | | | | | | | | |
|--|--------------------------------------|------------------------------------|---|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|
| | $^{\circ}\text{F}$ 32 - 176 | $^{\circ}\text{C}$ 0 - 80 | ΔP $\pm 0,33\%/^{\circ}\text{C}$ | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 33,18 cm ² 5,143 in ² | SPM ~ 15 - 50 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR50.1 Cu 25 ÷ 80 39BMAR50.1H Cu 100 ÷ 300 |
|--|--------------------------------------|------------------------------------|---|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|

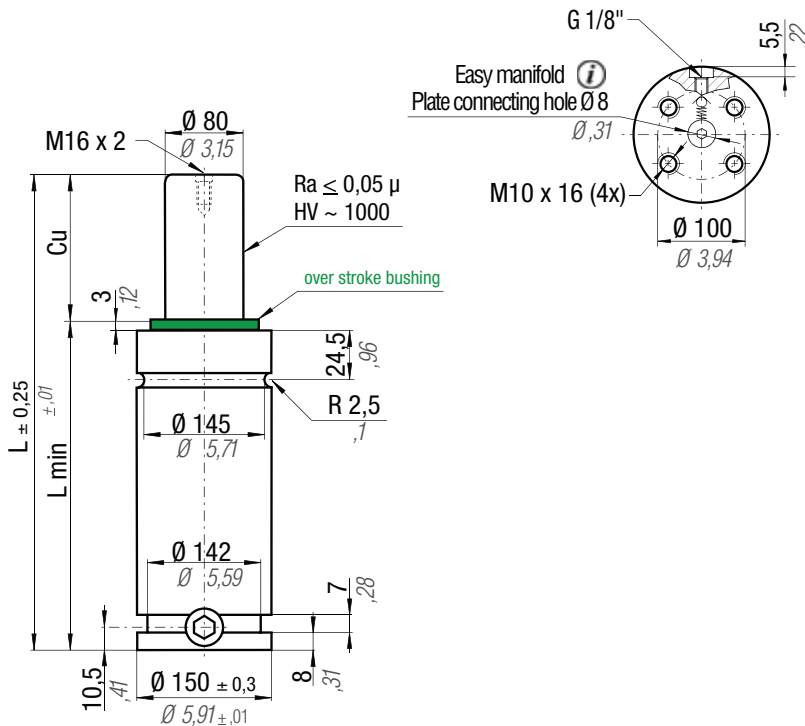
| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | Cat. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-----------------|------|-------|-----|-------|-------|-------|------|-------|------|-------|-----------------|-----------------|-------|-------|-----|---------------------|------|-------|-------|-------|-------|-------|---|-------------------------|------|-------|-------|-------|-------|-------|---|------|-------|--------|-------|-------|-------|----|------|-------|--------|-------|-------|-------|----|------|-------|--------|-------|-------|-------|----|------|-------|--------|--------|-------|-------|----|------|-------|--------|--------|-------|-------|----|--|--|--|--|--|--|--|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | | ~Kg | ~lb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 25 | AR 50 - 25 . 1 | 25 | 0,98 | 190 | 7,48 | 165 | 6,50 | 4980 | 11195 | 7148 | 16069 | 370,0 | 22,57 | 11,07 | 24,41 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 38 | AR 50 - 38 . 1 | 38 | 1,50 | 216 | 8,50 | 178 | 7,01 | | | | | | | | | | 150 bar 2175 psi | 8537 | 19192 | 720,0 | 43,92 | 13,28 | 29,28 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 50 | AR 50 - 50 . 1 | 50 | 1,97 | 240 | 9,45 | 190 | 7,48 | | | | | | | | | | | | | | | | | | ± 5% + 20 °C + 68 °F | 8768 | 19711 | 850,0 | 51,85 | 14,08 | 31,04 | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 63 | AR 50 - 63 . 1 | 63,5 | 2,50 | 267 | 10,51 | 203,5 | 8,01 | | | | | | | | | | | | | | | | | | | | | | | | | | 8977 | 20181 | 1010,0 | 61,61 | 15,10 | 33,29 | II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 80 | AR 50 - 80 . 1 | 80 | 3,15 | 300 | 11,81 | 220 | 8,66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9181 | 20640 | 1230,0 | 75,03 | 16,50 | 36,38 | II | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 100 | AR 50 - 100 . 1 | 100 | 3,94 | 340 | 13,39 | 240 | 9,45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9340 | 20997 | 1480,0 | 90,28 | 18,10 | 39,90 | II | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 125 | AR 50 - 125 . 1 | 125 | 4,92 | 390 | 15,35 | 265 | 10,43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9477 | 21305 | 1800,0 | 109,80 | 20,10 | 44,31 | II | | | | | | | | | | | | | | |
| AR 50 - 160 | AR 50 - 160 . 1 | 160 | 6,30 | 460 | 18,11 | 300 | 11,81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9573 | 21521 | 2120,0 | 129,32 | 22,12 | 48,77 | II | | | | | | | |
| AR 50 - 200 | AR 50 - 200 . 1 | 200 | 7,87 | 540 | 21,26 | 340 | 13,39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 250 | AR 50 - 250 . 1 | 250 | 9,84 | 640 | 25,20 | 390 | 15,35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR 50 - 300 | AR 50 - 300 . 1 | 300 | 11,81 | 740 | 29,13 | 440 | 17,32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



HOW TO ORDER

- (10 pcs) AR 50-50.1
- (10 pcs) AR 50-50.1-C
- (10 pcs) AR 50-50.1-E

| | | |
|--------------------|-------------------------|---------------|
| ISO 11901 - 1 | B8 3180 220 000 001(MB) | PG23D (Mazda) |
| VDI 3003 | E24.54.815.G (PSA) | |
| B2 4006 (BMW) | EM24.54.700 (Renault) | |
| W-DX35-6203 (Ford) | 39D 878 (VW) | |



Info

* 100% Cu - Polytropic end forces

i page 164

Il nuovo codice sarà fornito solo ad esaurimento del vecchio

The new code will be supplied only when the old will be out of stock

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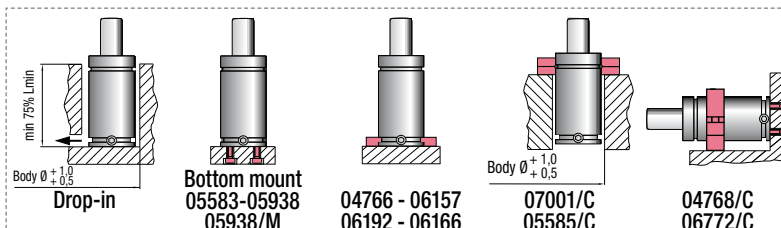


For Easy manifold replacement units quote product code marked on your cylinders.

AR ARF

| | | | | | | | | | | |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|
| | N₂ | °F 32 - 176 | °C 0 - 80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 50,27 cm ² 7,792 in ² | SPM ~ 15 - 50 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR75.1 Cu 25 ÷ 80 39BMAR75.1H Cu 100 ÷ 300 |
|--|----------------------|-----------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------------|--|--------------------------------------|-----------------------------|---|

| CODE | NEW | Cu | | L | | L min | | F0 | | F1 | | V0 | | ~Kg | ~lb | Cat. |
|-------------|-----------------|------|-------|-----|-------|-------|-------|-------|-------|--------|--------|-----------------|-----------------|-------|-------|------|
| | | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | | | |
| AR 75 - 25 | AR 75 - 25 . 1 | 25 | 0,98 | 205 | 8,07 | 180 | 7,09 | 7540 | 16950 | 10470 | 23537 | 770,0 | 46,97 | 19,10 | 42,11 | - |
| AR 75 - 38 | AR 75 - 38 . 1 | 38 | 1,50 | 231 | 9,09 | 193 | 7,60 | | | 11190 | 25156 | 960,0 | 58,56 | 19,95 | 43,98 | - |
| AR 75 - 50 | AR 75 - 50 . 1 | 50 | 1,97 | 255 | 10,04 | 205 | 8,07 | | | 11680 | 26258 | 1140,0 | 69,54 | 20,70 | 45,64 | I |
| AR 75 - 63 | AR 75 - 63 . 1 | 63,5 | 2,50 | 282 | 11,10 | 218,5 | 8,60 | | | 12050 | 27089 | 1350,0 | 82,35 | 21,50 | 47,40 | II |
| AR 75 - 80 | AR 75 - 80 . 1 | 80 | 3,15 | 315 | 12,40 | 235 | 9,25 | | | 12480 | 28056 | 1600,0 | 97,60 | 22,50 | 49,60 | II |
| AR 75 - 100 | AR 75 - 100 . 1 | 100 | 3,94 | 355 | 13,98 | 255 | 10,04 | | | 12830 | 28843 | 1900,0 | 115,90 | 23,70 | 52,25 | II |
| AR 75 - 125 | AR 75 - 125 . 1 | 125 | 4,92 | 405 | 15,94 | 280 | 11,02 | | | 13145 | 29551 | 2280,0 | 139,08 | 25,20 | 55,56 | II |
| AR 75 - 160 | AR 75 - 160 . 1 | 160 | 6,30 | 475 | 18,70 | 315 | 12,40 | | | 13460 | 30259 | 2800,0 | 170,80 | 27,40 | 60,41 | II |
| AR 75 - 200 | AR 75 - 200 . 1 | 200 | 7,87 | 555 | 21,85 | 355 | 13,98 | | | 13700 | 30799 | 3410,0 | 208,01 | 29,80 | 65,70 | II |
| AR 75 - 250 | AR 75 - 250 . 1 | 250 | 9,84 | 655 | 25,79 | 405 | 15,94 | | | 13920 | 31293 | 4160,0 | 253,76 | 32,90 | 72,53 | II |
| AR 75 - 300 | AR 75 - 300 . 1 | 300 | 11,81 | 755 | 29,72 | 455 | 17,91 | 14070 | 31631 | 4920,0 | 300,12 | 35,90 | 79,15 | II | | |



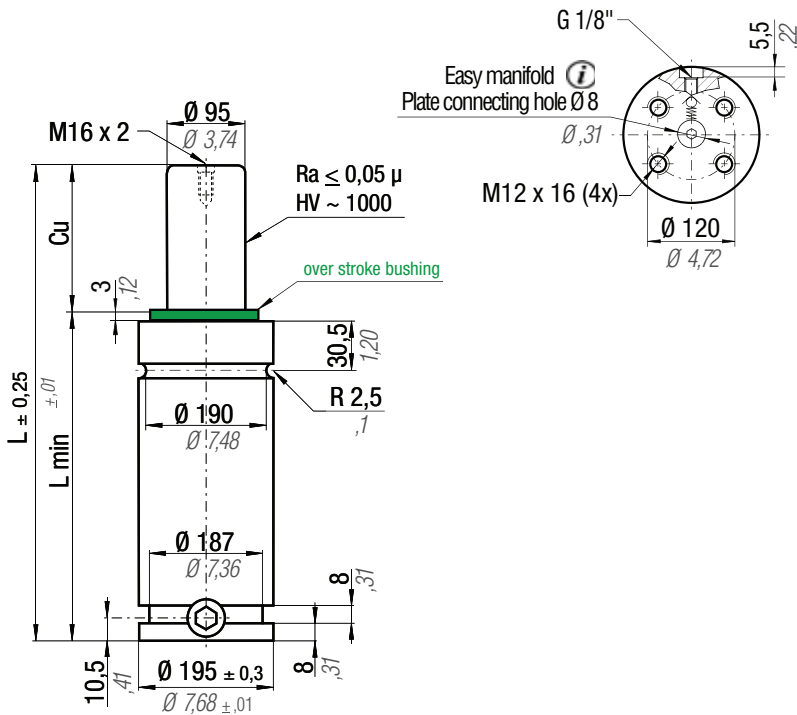
HOW TO ORDER

- (10 pcs) AR 75-50.1
- (10 pcs) AR 75-50.1-C
- (10 pcs) AR 75-50.1-E

AR 100



| | |
|-------------------------|-----------------------|
| ISO 11901 - 1 | EM24.54.700 (Renault) |
| VDI 3003 | 39D 878 (VW) |
| B8 3180 220 000 001(MB) | |



Info

* 100% Cu - Polytropic end forces

page 164

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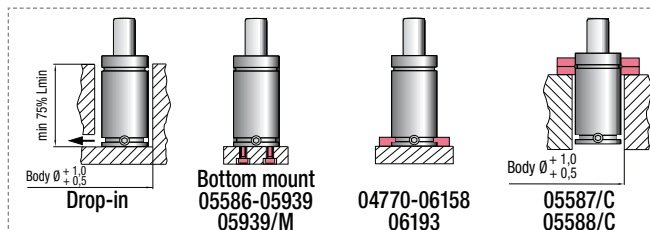
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O novo código irá ser fornecido apenas quando o antigo esgotar stock



For Easy manifold replacement units quote product code marked on your cylinders.

| N ₂ | °F 32 - 176 | °C 0 - 80 | ΔP ± 0,33 %/°C | P max 150 bar 2175 psi | P min 20 bar 290 psi | S 70,88 cm ² 10,986 in ² | SPM ~ 15 - 50 (at 20°C) | Max Speed 1,8 m/s | Maintenance kit 39BMAR100.1 | | | | | | | | |
|----------------|----------------------|--------------------|-------------------|------------------------------|----------------------------|--|-------------------------------|----------------------|--------------------------------|---------------------|--------|-----------------|-----------------|---------------------------------|-------------------------------|----------------|-----|
| | | | | | | | | | | CODE | Cu | L | L min | F ₀ Initial force | F ₁ End force * | V ₀ | CE |
| PHASING OUT | NEW | mm | inch | mm | inch | mm | inch | daN | lb | daN | lb | cm ³ | in ³ | ~Kg | ~lb | Cat. | |
| AR 100 - 25 | AR 100 - 25 . 1 | 25 | 0,98 | 210 | 8,27 | 185 | 7,28 | 10600 | 23830 | 150 bar 2175 psi | 14820 | 33317 | 1307,0 | 79,73 | 35,09 | 77,36 | I |
| AR 100 - 38 | AR 100 - 38 . 1 | 38 | 1,50 | 236 | 9,29 | 198 | 7,80 | | | | 15740 | 35385 | 1370,0 | 83,57 | 36,55 | 80,58 | II |
| AR 100 - 50 | AR 100 - 50 . 1 | 50 | 1,97 | 260 | 10,24 | 210 | 8,27 | | | | 16340 | 36734 | 1640,0 | 100,04 | 37,89 | 83,53 | II |
| AR 100 - 63 | AR 100 - 63 . 1 | 63,5 | 2,50 | 287 | 11,30 | 223 | 8,78 | | | | 16780 | 37723 | 1950,0 | 118,95 | 39,40 | 86,86 | II |
| AR 100 - 80 | AR 100 - 80 . 1 | 80 | 3,15 | 320 | 12,60 | 240 | 9,45 | | | | 17290 | 38869 | 2330,0 | 142,13 | 41,24 | 90,92 | II |
| AR 100 - 100 | AR 100 - 100 . 1 | 100 | 3,94 | 360 | 14,17 | 260 | 10,24 | | | | 17690 | 39769 | 2790,0 | 170,19 | 43,48 | 95,86 | II |
| AR 100 - 125 | AR 100 - 125 . 1 | 125 | 4,92 | 410 | 16,14 | 285 | 11,22 | | | | 18050 | 40578 | 3360,0 | 204,96 | 46,28 | 102,03 | II |
| AR 100 - 160 | AR 100 - 160 . 1 | 160 | 6,30 | 480 | 18,90 | 320 | 12,60 | | | | 18370 | 41297 | 4170,0 | 254,37 | 50,12 | 110,50 | II |
| AR 100 - 200 | AR 100 - 200 . 1 | 200 | 7,87 | 560 | 22,05 | 360 | 14,17 | | | | 18800 | 42264 | 5020,0 | 306,22 | 55,15 | 121,58 | II |
| AR 100 - 250 | AR 100 - 250 . 1 | 250 | 9,84 | 660 | 25,98 | 410 | 16,14 | | | | 19300 | 43388 | 6020,0 | 367,22 | 61,85 | 136,36 | III |
| AR 100 - 300 | AR 100 - 300 . 1 | 300 | 11,81 | 760 | 29,92 | 460 | 18,11 | 19670 | 44220 | 7030,0 | 428,83 | 68,54 | 151,10 | III | | | |



HOW TO ORDER

- (10 pcs) AR 100-50.1
- (10 pcs) AR 100-50.1-C
- (10 pcs) AR 100-50.1-E