

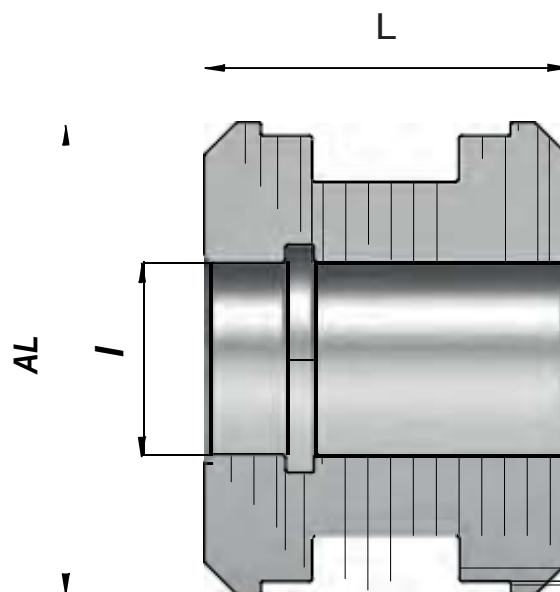
# PISTON HEAD BUSH



ROYAL HORSE HYDRAULIC LLC

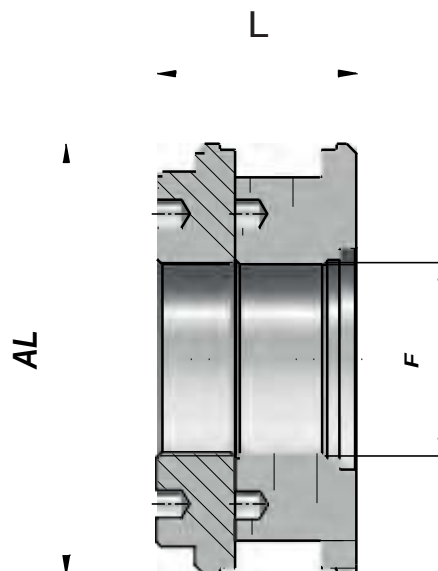
# PISTON

| WPBK    |     |      |      |      |
|---------|-----|------|------|------|
| Code    | ØAL | ØI-F | L    | kg   |
| WPBK-56 | 30  | 13   | 24,7 | 0,02 |
| WPBK-57 | 32  | 13   | 30   | 0,10 |
| WPBK-58 | 32  | 15   | 30   | 0,09 |
| WPBK-59 | 35  | 15   | 40   | 0,16 |
| WPBK-60 | 40  | 15   | 40   | 0,23 |
| WPBK-61 | 45  | 15   | 40   | 0,31 |
| WPBK-62 | 50  | 15   | 40   | 0,36 |
| WPBK-63 | 50  | 20   | 40   | 0,31 |
| WPBK-64 | 55  | 20   | 40   | 0,42 |
| WPBK-65 | 60  | 20   | 50   | 0,71 |
| WPBK-66 | 60  | 24   | 45   | 0,56 |
| WPBK-67 | 60  | 27   | 50   | 0,61 |
| WPBK-68 | 63  | 20   | 50   | 0,81 |
| WPBK-69 | 63  | 24   | 45   | 0,65 |
| WPBK-70 | 65  | 20   | 50   | 0,88 |
| WPBK-71 | 65  | 24   | 45   | 0,72 |
| WPBK-72 | 70  | 20   | 50   | 0,94 |
| WPBK-73 | 70  | 24   | 45   | 0,78 |
| WPBK-74 | 70  | 27   | 50   | 0,83 |
| WPBK-75 | 75  | 24   | 45   | 0,95 |
| WPBK-76 | 75  | 27   | 50   | 1,00 |
| WPBK-77 | 80  | 24   | 45   | 1,11 |
| WPBK-78 | 80  | 27   | 50   | 1,23 |
| WPBK-79 | 85  | 24   | 45   | 1,30 |
| WPBK-80 | 85  | 27   | 50   | 1,43 |
| WPBK-81 | 90  | 27   | 50   | 1,66 |
| WPBK-82 | 90  | 33   | 50   | 1,55 |
| WPBK-83 | 100 | 27   | 50   | 2,06 |
| WPBK-84 | 100 | 33   | 50   | 1,95 |
| WPBK-85 | 110 | 33   | 50   | 2,49 |
| WPBK-86 | 110 | 40   | 50   | 2,33 |
| WPBK-87 | 120 | 40   | 50   | 2,95 |
| WPBK-88 | 125 | 40   | 50   | 3,19 |
| WPBK-89 | 140 | 40   | 58   | 5,07 |
| WPBK-90 | 150 | 40   | 58   | 5,97 |
| WPBK-91 | 160 | 51   | 58   | 6,60 |



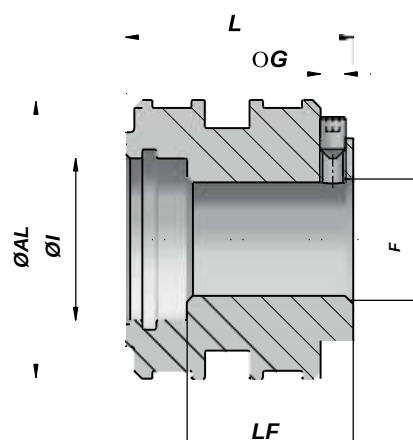
MATERIAL  
STEEL 9SMN28 . UNI C40  
ALUMINIUM UNI 2011 . 11S

PISTON



| WPBK1     |     |       |    |       |
|-----------|-----|-------|----|-------|
| Code      | ØAL | ØI-F  | L  | kg    |
| WPBK1-100 | 180 | M80x2 | 82 | 9,80  |
| WPBK1-101 | 200 | M80x2 | 82 | 13,00 |
| WPBK1-102 | 250 | M98x2 | 82 | 21,70 |

MATERIAL  
 STEEL 9SMN28 . UNIC40  
 ALUMINIUM UNI 2011 . 11S

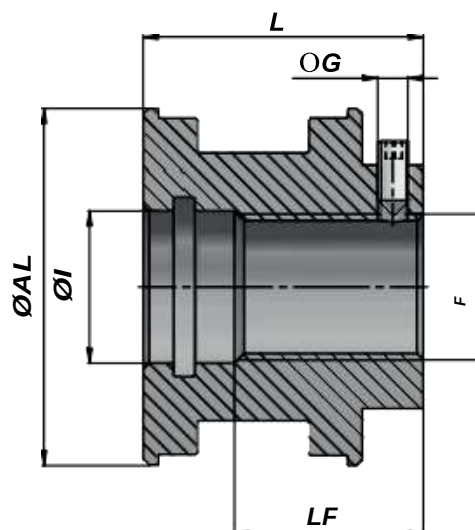


## THREADED PISTON WITH GRUB SCREW

| WPBQ      |     |         |     |     |     |     |       |
|-----------|-----|---------|-----|-----|-----|-----|-------|
| Code      | ØAL | F       | LF  | L   | ØI  | ØG  | kg    |
| WPBQ- 350 | 50  | M20x1.5 | 28  | 40  | 21  | M6  | 0,40  |
| WPBQ- 351 | 50  | M22x1.5 | 28  | 40  | 25  | M6  | 0,36  |
| WPBQ- 352 | 60  | M27x2   | 30  | 45  | 30  | M6  | 0,60  |
| WPBQ- 353 | 63  | M27x2   | 30  | 45  | 30  | M6  | 0,67  |
| WPBQ- 354 | 70  | M33x2   | 41  | 56  | 35  | M6  | 1,00  |
| WPBQ- 355 | 70  | M30x2   | 41  | 56  | 40  | M6  | 1,00  |
| WPBQ- 356 | 80  | M30x2   | 41  | 56  | 40  | M6  | 1,40  |
| WPBQ- 357 | 80  | M33x2   | 41  | 56  | 40  | M6  | 1,37  |
| WPBQ- 358 | 90  | M36x3   | 40  | 55  | 38  | M6  | 1,80  |
| WPBQ- 359 | 90  | M40x2   | 40  | 55  | 43  | M6  | 1,71  |
| WPBQ- 360 | 100 | M42x2   | 41  | 56  | 45  | M6  | 2,20  |
| WPBQ- 361 | 110 | M48x3   | 55  | 70  | 50  | M8  | 3,40  |
| WPBQ- 362 | 120 | M48x3   | 55  | 70  | 50  | M8  | 4,10  |
| WPBQ- 363 | 120 | M52x2   | 55  | 70  | 54  | M8  | 3,94  |
| WPBQ- 364 | 125 | M48x3   | 55  | 70  | 51  | M8  | 4,40  |
| WPBQ- 365 | 125 | M52x2   | 55  | 70  | 54  | M8  | 4,23  |
| WPBQ- 366 | 140 | M48x3   | 57  | 75  | 50  | M8  | 6,00  |
| WPBQ- 367 | 140 | M64x3   | 57  | 75  | 67  | M8  | 5,55  |
| WPBQ- 368 | 150 | M52x3   | 60  | 80  | 56  | M8  | 7,50  |
| WPBQ- 369 | 150 | M64x3   | 60  | 80  | 67  | M8  | 6,91  |
| WPBQ- 370 | 160 | M52x3   | 60  | 80  | 56  | M8  | 8,50  |
| WPBQ- 371 | 160 | M74x3   | 60  | 80  | 76  | M8  | 7,82  |
| WPBQ- 372 | 180 | M80x2   | 85  | 115 | 90  | M10 | 14,10 |
| WPBQ- 373 | 200 | M90x2   | 85  | 115 | 100 | M10 | 17,48 |
| WPBQ- 374 | 220 | M100x2  | 90  | 120 | 110 | M10 | 21,78 |
| WPBQ- 375 | 250 | M115x3  | 100 | 130 | 125 | M10 | 30,04 |
| WPBQ- 376 | 300 | M140x3  | 105 | 140 | 150 | M12 | 44,94 |

MATERIAL  
STEEL UNI C40

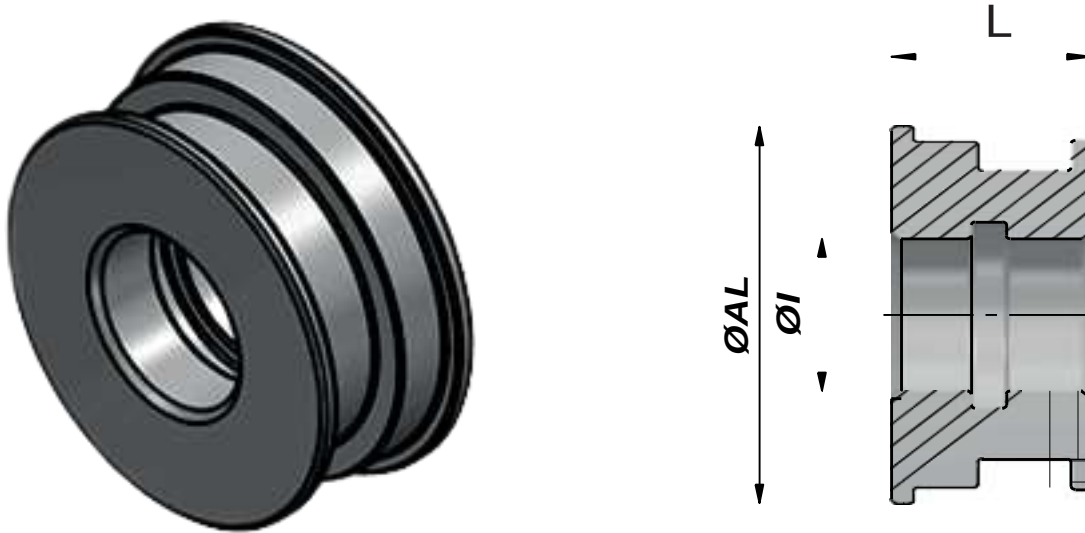
# PISTON



### THREADED PISTON WITH GRUB SCREW

| WPBF     |     |         |    |      |    |    |      |
|----------|-----|---------|----|------|----|----|------|
| Code     | ØAL | F       | LF | L    | ØI | ØG | kg   |
| WPBF- 28 | 25  | M10x1.5 | 23 | 30.5 | 11 | M3 | 0,02 |
| WPBF- 29 | 30  | M12x1.5 | 23 | 30.5 | 13 | M3 | 0,03 |
| WPBF- 30 | 32  | M12x1.5 | 25 | 33.0 | 13 | M3 | 0,11 |
| WPBF- 31 | 35  | M12x1.5 | 32 | 40.0 | 13 | M3 | 0,17 |
| WPBF- 32 | 40  | M16x1.5 | 32 | 42.0 | 17 | M4 | 0,22 |
| WPBF- 33 | 45  | M16x1.5 | 32 | 42.0 | 17 | M4 | 0,29 |
| WPBF- 34 | 50  | M20x1.5 | 32 | 44.0 | 21 | M4 | 0,31 |
| WPBF- 35 | 55  | M20x1.5 | 32 | 44.0 | 21 | M4 | 0,41 |
| WPBF- 36 | 60  | M24x2   | 31 | 46.0 | 25 | M5 | 0,50 |
| WPBF- 37 | 63  | M24x2   | 31 | 46.0 | 25 | M5 | 0,57 |
| WPBF- 38 | 65  | M24x2   | 31 | 46.0 | 25 | M5 | 0,63 |
| WPBF- 39 | 70  | M24x2   | 34 | 49.0 | 25 | M5 | 0,75 |
| WPBF- 40 | 75  | M27x2   | 37 | 52.0 | 28 | M6 | 0,91 |
| WPBF- 41 | 80  | M27x2   | 37 | 52.0 | 28 | M6 | 1,07 |
| WPBF- 42 | 85  | M27x2   | 37 | 52.0 | 28 | M6 | 1,24 |
| WPBF- 43 | 90  | M33x2   | 37 | 52.0 | 35 | M6 | 1,38 |
| WPBF- 44 | 100 | M33x2   | 39 | 54.0 | 35 | M6 | 1,76 |
| WPBF- 45 | 110 | M39x3   | 42 | 57.0 | 42 | M8 | 2,29 |
| WPBF- 46 | 120 | M42x3   | 42 | 57.0 | 45 | M8 | 2,80 |
| WPBF- 47 | 125 | M42x3   | 44 | 59.0 | 45 | M8 | 3,16 |
| WPBF- 48 | 140 | M48x3   | 47 | 65.0 | 51 | M8 | 4,61 |
| WPBF- 49 | 150 | M48x3   | 47 | 65.0 | 51 | M8 | 5,43 |
| WPBF- 50 | 160 | M52x3   | 47 | 65.0 | 54 | M8 | 6,24 |

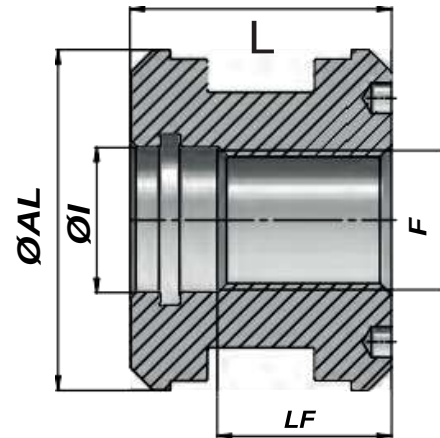
MATERIAL  
STEEL 9SMN28 . UNI C40  
ALUMINIUM UNI 211 . 115



#### PISTON FOR SINGLE ACTING CYLINDER

| WPBS            |     |    |    |      |
|-----------------|-----|----|----|------|
| Code            | ØAL | ØI | L  | kg   |
| <b>WPBS- 20</b> | 40  | 15 | 20 | 0,11 |
| <b>WPBS- 21</b> | 50  | 20 | 25 | 0,21 |
| <b>WPBS- 22</b> | 60  | 20 | 25 | 0,35 |
| <b>WPBS- 23</b> | 63  | 24 | 25 | 0,35 |
| <b>WPBS- 24</b> | 70  | 27 | 28 | 0,45 |
| <b>WPBS- 25</b> | 80  | 27 | 28 | 0,66 |
| <b>WPBS- 26</b> | 90  | 33 | 30 | 0,93 |
| <b>WPBS- 27</b> | 100 | 33 | 30 | 1,23 |

MATERIAL  
STEEL 9SMN28 . UNI C40



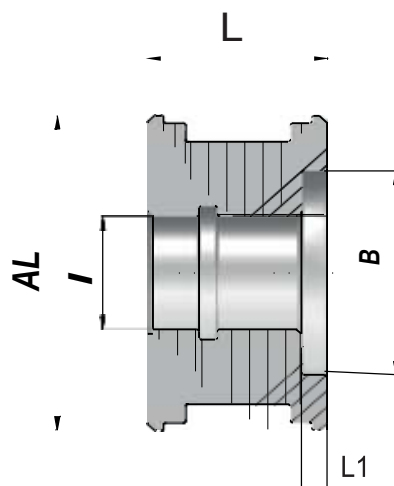
## THREADED PISTON

| WPBV      |     |         |      |    |    |      |
|-----------|-----|---------|------|----|----|------|
| Code      | ØAL | F       | LF   | L  | ØI | kg   |
| WPBV -657 | 25  | M10x1.5 | 17.5 | 25 | 11 | 0,01 |
| WPBV -658 | 40  | M16x1.5 | 30.0 | 40 | 17 | 0,22 |
| WPBV -659 | 50  | M20x1.5 | 28.0 | 40 | 21 | 0,31 |
| WPBV -660 | 60  | M24x2   | 30.0 | 45 | 25 | 0,58 |
| WPBV -661 | 63  | M24x2   | 30.0 | 45 | 25 | 0,66 |
| WPBV -662 | 70  | M24x2   | 30.0 | 45 | 25 | 0,78 |
| WPBV -663 | 80  | M27x2   | 30.0 | 45 | 28 | 1,08 |
| WPBV -664 | 90  | M33x2   | 35.0 | 50 | 35 | 1,57 |
| WPBV -665 | 100 | M33x2   | 35.0 | 50 | 35 | 2,18 |
| WPBV -666 | 110 | M39x3   | 35.0 | 50 | 42 | 2,40 |
| WPBV -667 | 120 | M42x3   | 35.0 | 50 | 45 | 3,00 |
| WPBV -668 | 125 | M42x3   | 35.0 | 50 | 45 | 3,20 |
| WPBV -669 | 140 | M48x3   | 40.0 | 58 | 51 | 4,90 |
| WPBV -670 | 150 | M48x3   | 40.0 | 58 | 51 | 5,80 |
| WPBV -671 | 160 | M52x3   | 40.0 | 58 | 54 | 6,70 |

### MATERIAL

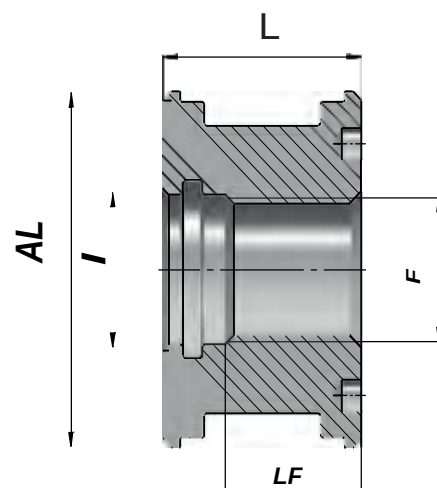
STEEL 9SMN28 . UNI C40

ALUMINIUM UNI 2011 . 11S



| WPBM     |     |    |    |    |    |      |
|----------|-----|----|----|----|----|------|
| Code     | ØAL | ØI | L  | ØB | L1 | Kg   |
| WPBM-500 | 40  | 15 | 27 | 27 | 5  | 0,15 |
| WPBM-501 | 50  | 21 | 30 | 36 | 5  | 0,25 |
| WPBM-502 | 60  | 25 | 35 | 45 | 5  | 0,40 |
| WPBM-503 | 70  | 25 | 35 | 45 | 5  | 0,59 |
| WPBM-504 | 80  | 28 | 40 | 50 | 6  | 0,95 |
| WPBM-505 | 100 | 35 | 40 | 60 | 6  | 1,60 |

MATERIAL  
STEEL 9SMN28 . UNIC40

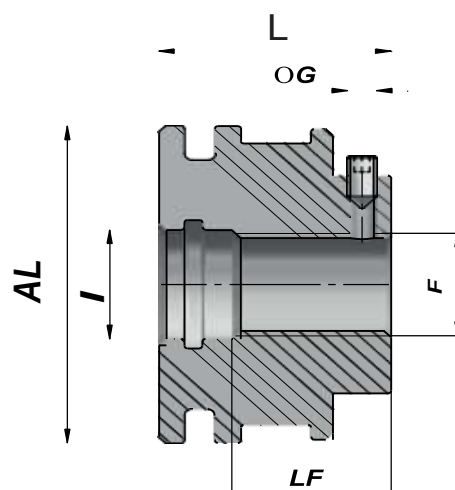


## THREADED PISTON

| WPBA     |     |         |    |    |    |      |
|----------|-----|---------|----|----|----|------|
| Code     | ØAL | F       | LF | L  | ØI | kg   |
| WPBA-200 | 30  | M12x1.5 | 17 | 25 | 13 | 0,07 |
| WPBA-201 | 32  | M12x1.5 | 19 | 27 | 13 | 0,09 |
| WPBA-202 | 35  | M12x1.5 | 19 | 27 | 13 | 0,12 |
| WPBA-203 | 40  | M16x1.5 | 19 | 27 | 17 | 0,17 |
| WPBA-204 | 45  | M16x1.5 | 21 | 30 | 17 | 0,25 |
| WPBA-205 | 50  | M20x1.5 | 21 | 30 | 21 | 0,29 |
| WPBA-206 | 55  | M20x1.5 | 24 | 35 | 21 | 0,35 |
| WPBA-207 | 60  | M24x2   | 24 | 35 | 25 | 0,45 |
| WPBA-208 | 63  | M24x2   | 24 | 35 | 25 | 0,50 |
| WPBA-209 | 65  | M24x2   | 24 | 35 | 25 | 0,53 |
| WPBA-210 | 70  | M24x2   | 24 | 35 | 25 | 0,70 |
| WPBA-211 | 75  | M27x2   | 24 | 35 | 28 | 0,81 |
| WPBA-212 | 80  | M27x2   | 26 | 40 | 28 | 1,06 |
| WPBA-213 | 85  | M27x2   | 26 | 40 | 28 | 1,34 |
| WPBA-214 | 90  | M33x2   | 26 | 40 | 35 | 1,34 |
| WPBA-215 | 100 | M33x2   | 26 | 40 | 35 | 1,76 |

MATERIAL  
STEEL 9SMN28 . UNIC40

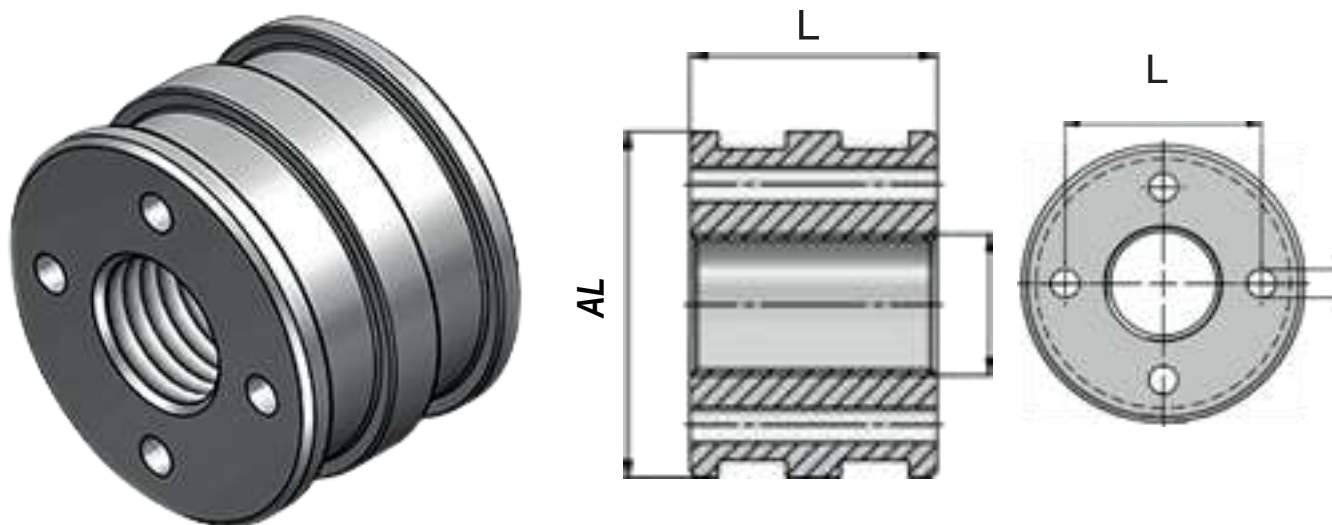
# PISTON



### THREADED PISTON WITH GRUB SCREW FOR LOW FRICTION SEAL

| WPBL      |     |         |      |    |    |    |      |
|-----------|-----|---------|------|----|----|----|------|
| Code      | ØAL | F       | LF   | L  | ØI | ØG | kg   |
| WPBL- 115 | 30  | M12x1.5 | 22.5 | 30 | 13 | M3 | 0,10 |
| WPBL- 116 | 32  | M12x1.5 | 22.0 | 30 | 13 | M3 | 0,12 |
| WPBL- 117 | 35  | M12x1.5 | 22.0 | 30 | 13 | M3 | 0,15 |
| WPBL- 118 | 40  | M16x1.5 | 22.0 | 32 | 17 | M4 | 0,19 |
| WPBL- 119 | 45  | M16x1.5 | 22.0 | 32 | 17 | M4 | 0,25 |
| WPBL- 120 | 50  | M16x1.5 | 22.0 | 32 | 17 | M4 | 0,31 |
| WPBL- 121 | 55  | M20x1.5 | 23.0 | 35 | 21 | M4 | 0,39 |
| WPBL- 122 | 60  | M24x2   | 25.0 | 40 | 25 | M5 | 0,53 |
| WPBL- 123 | 63  | M24x2   | 25.0 | 40 | 25 | M5 | 0,60 |
| WPBL- 124 | 65  | M24x2   | 25.0 | 40 | 25 | M5 | 0,64 |
| WPBL- 125 | 70  | M24x2   | 25.0 | 40 | 25 | M5 | 0,78 |
| WPBL- 126 | 75  | M27x2   | 30.0 | 45 | 28 | M6 | 1,00 |
| WPBL- 127 | 80  | M27x2   | 30.0 | 45 | 28 | M6 | 1,11 |
| WPBL- 128 | 85  | M27x2   | 30.0 | 45 | 28 | M6 | 1,27 |
| WPBL- 129 | 90  | M33x2   | 33.0 | 48 | 35 | M6 | 1,54 |
| WPBL- 130 | 100 | M33x2   | 33.0 | 48 | 35 | M6 | 1,93 |
| WPBL- 131 | 110 | M39x3   | 35.0 | 50 | 42 | M8 | 2,39 |
| WPBL- 132 | 120 | M42x3   | 35.0 | 50 | 45 | M8 | 2,86 |
| WPBL- 133 | 125 | M42x3   | 37.0 | 52 | 45 | M8 | 3,29 |
| WPBL- 134 | 140 | M48x3   | 40.0 | 55 | 51 | M8 | 4,37 |
| WPBL- 135 | 150 | M48x3   | 40.0 | 55 | 51 | M8 | 5,07 |
| WPBL- 136 | 160 | M52x3   | 45.0 | 60 | 54 | M8 | 6,42 |

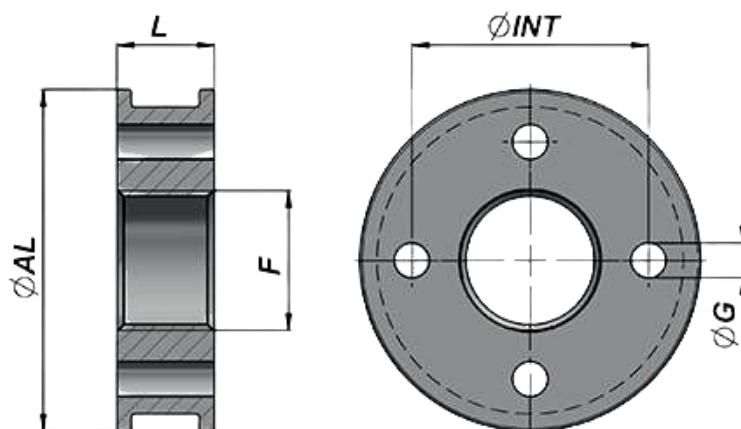
MATERIAL  
STEEL 9SMN28 . UNI C40



PISTON FOR PLUNGER CYLINDER

| WPBUI      |     |         |    |          |      |      |
|------------|-----|---------|----|----------|------|------|
| Code       | ØAL | F       | L  | ØG       | ØINT | kg   |
| WPBUI- D3  | 30  | M12x1.5 | 35 | ø 3 x 4  | 20   | 0,10 |
| WPBUI- D4  | 35  | M14x1.5 | 35 | ø 4 x 4  | 23   | 0,20 |
| WPBUI- D5  | 40  | M14x1.5 | 35 | ø 4 x 4  | 27   | 0,30 |
| WPBUI- D6  | 45  | M16x1.5 | 35 | ø 4 x 4  | 32   | 0,30 |
| WPBUI- D7  | 50  | M20x1.5 | 35 | ø 5 x 4  | 34   | 0,40 |
| WPBUI- D8  | 55  | M20x1.5 | 40 | ø 5 x 4  | 38   | 0,50 |
| WPBUI- D9  | 60  | M20x1.5 | 40 | ø 6 x 4  | 42   | 0,60 |
| WPBUI- D10 | 70  | M24x2   | 45 | ø 7 x 4  | 50   | 1,00 |
| WPBUI- D11 | 80  | M27x2   | 45 | ø 7 x 4  | 60   | 1,40 |
| WPBUI- D12 | 85  | M27x2   | 45 | ø 7 x 4  | 65   | 1,60 |
| WPBUI- D13 | 90  | M33x2   | 50 | ø 7 x 6  | 68   | 1,90 |
| WPBUI- D14 | 100 | M33x2   | 50 | ø 8 x 6  | 76   | 2,40 |
| WPBUI- D15 | 110 | M39x3   | 55 | ø 8 x 6  | 86   | 3,30 |
| WPBUI- D16 | 120 | M39x3   | 55 | ø 10 x 6 | 93   | 4,00 |

MATERIAL  
STEEL 9SMN28. UNI C40

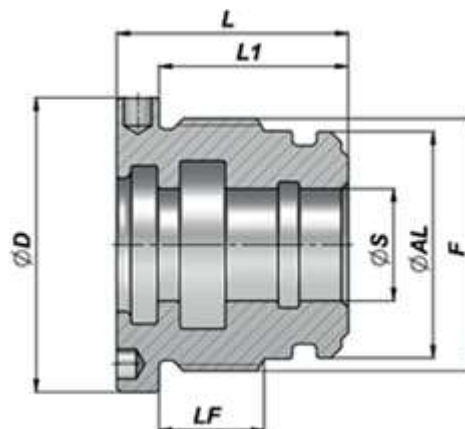


## PISTON FOR PLUNGER CYLINDER

| WPBUJ     |     |         |    |          |      |      |
|-----------|-----|---------|----|----------|------|------|
| Code      | ØAL | F       | L  | ØG       | ØINT | kg   |
| WPBUJ-D10 | 30  | M12x1.5 | 14 | ø 3 x 4  | 20   | 0,05 |
| WPBUJ-D11 | 35  | M14x1.5 | 14 | ø 4 x 4  | 23   | 0,07 |
| WPBUJ-D12 | 40  | M14x1.5 | 14 | ø 4 x 4  | 27   | 0,10 |
| WPBUJ-D13 | 45  | M16x1.5 | 14 | ø 4 x 4  | 32   | 0,13 |
| WPBUJ-D14 | 50  | M20x1.5 | 14 | ø 5 x 4  | 34   | 0,14 |
| WPBUJ-D15 | 55  | M20x1.5 | 18 | ø 5 x 4  | 38   | 0,23 |
| WPBUJ-D16 | 60  | M20x1.5 | 18 | ø 6 x 4  | 42   | 0,29 |
| WPBUJ-D17 | 70  | M24x2   | 20 | ø 7 x 4  | 50   | 0,45 |
| WPBUJ-D18 | 80  | M27x2   | 20 | ø 7 x 4  | 60   | 0,61 |
| WPBUJ-D19 | 85  | M27x2   | 20 | ø 7 x 4  | 65   | 0,71 |
| WPBUJ-D20 | 90  | M33x2   | 22 | ø 7 x 6  | 68   | 0,84 |
| WPBUJ-D21 | 100 | M33x2   | 22 | ø 8 x 6  | 76   | 1,08 |
| WPBUJ-D22 | 110 | M39x3   | 22 | ø 8 x 6  | 86   | 1,30 |
| WPBUJ-D23 | 120 | M39x3   | 22 | ø 10 x 6 | 93   | 1,57 |

MATERIAL  
STEEL 9SMN28 UNI C40

# HEAD BUSH



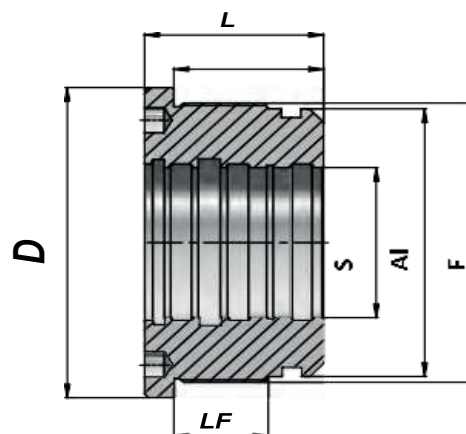
| WTPY        |     |    |     |         |    |     |    |       |
|-------------|-----|----|-----|---------|----|-----|----|-------|
| Code        | ØAL | ØS | ØD  | F       | LF | L   | L1 | kg    |
| WTPY- 0U300 | 30  | 16 | 40  | M34x1.5 | 15 | 33  | 27 | 0,05  |
| WTPY- 0U301 | 32  | 16 | 42  | M36x1.5 | 15 | 33  | 27 | 0,06  |
| WTPY- 0U302 | 35  | 20 | 44  | M39x1.5 | 19 | 40  | 32 | 0,21  |
| WTPY- 0U303 | 40  | 20 | 49  | M44x1.5 | 19 | 40  | 32 | 0,30  |
| WTPY- 0U304 | 45  | 22 | 54  | M49x1.5 | 19 | 40  | 32 | 0,37  |
| WTPY- 0U305 | 50  | 20 | 59  | M54x1.5 | 22 | 43  | 35 | 0,55  |
| WTPY- 0U306 | 55  | 25 | 64  | M60x1.5 | 21 | 43  | 35 | 0,63  |
| WTPY- 0U307 | 60  | 25 | 69  | M64x1.5 | 27 | 50  | 40 | 0,91  |
| WTPY- 0U308 | 63  | 30 | 73  | M68x1.5 | 25 | 50  | 40 | 0,96  |
| WTPY- 0U309 | 65  | 30 | 74  | M69x1.5 | 25 | 50  | 40 | 1,00  |
| WTPY- 0U310 | 70  | 25 | 79  | M74x1.5 | 27 | 50  | 40 | 1,29  |
| WTPY- 0U311 | 75  | 30 | 89  | M80x2   | 33 | 60  | 50 | 1,79  |
| WTPY- 0U312 | 80  | 30 | 94  | M85x2   | 33 | 60  | 50 | 2,06  |
| WTPY- 0U313 | 80  | 40 | 94  | M85x2   | 33 | 60  | 50 | 1,78  |
| WTPY- 0U314 | 85  | 35 | 99  | M90x2   | 33 | 60  | 50 | 2,20  |
| WTPY- 0U315 | 90  | 40 | 104 | M95x2   | 33 | 60  | 50 | 2,35  |
| WTPY- 0U316 | 100 | 40 | 114 | M105x2  | 51 | 82  | 70 | 4,21  |
| WTPY- 0U317 | 110 | 45 | 124 | M115x2  | 41 | 72  | 60 | 4,40  |
| WTPY- 0U318 | 120 | 50 | 139 | M125x2  | 49 | 82  | 70 | 5,99  |
| WTPY- 0U319 | 125 | 60 | 144 | M130x2  | 59 | 92  | 80 | 6,76  |
| WTPY- 0U320 | 140 | 70 | 159 | M145x2  | 59 | 92  | 80 | 8,10  |
| WTPY- 0U321 | 150 | 70 | 169 | M155x2  | 69 | 102 | 90 | 10,75 |
| WTPY- 0U322 | 160 | 80 | 179 | M165x2  | 69 | 102 | 90 | 11,76 |

MATERIAL

HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007, EN 1561)

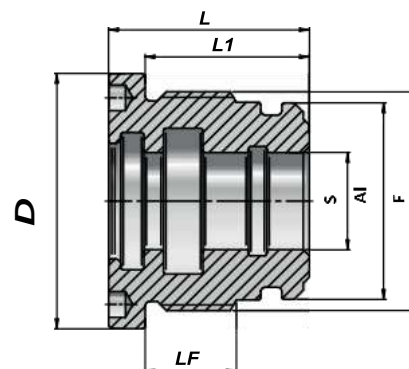
ALUMINIUM UNI 2011 11S

## HEAD BUSH



| WTPB       |     |     |     |          |    |     |     |       |
|------------|-----|-----|-----|----------|----|-----|-----|-------|
| Code       | ØAL | ØS  | ØD  | F        | LF | L   | L1  | kg    |
| WTPB- 0U30 | 180 | 100 | 208 | M188x2.5 | 58 | 110 | 92  | 14,84 |
| WTPB- 0U31 | 200 | 100 | 218 | M208x2.5 | 58 | 110 | 92  | 19,34 |
| WTPB- 0U32 | 250 | 120 | 268 | M258x2.5 | 80 | 135 | 117 | 37,94 |

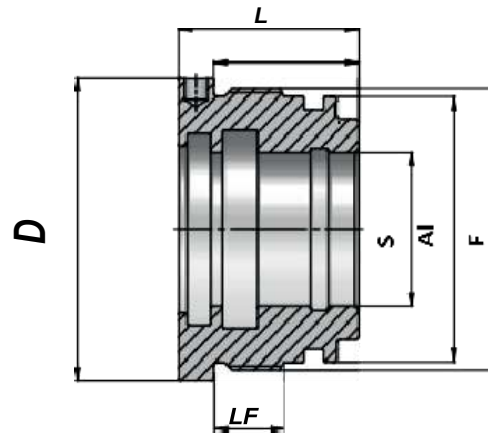
MATERIAL  
HYDRAULIC CAST IRON EN GJL 250 (G 25 UNI 5007 EN 1561 )  
ALUMINIUM UNI 2011 11S



| WTPC       |     |    |     |        |    |    |    |      |
|------------|-----|----|-----|--------|----|----|----|------|
| Code       | ØAL | ØS | ØD  | F      | LF | L  | L1 | kg   |
| WTPC- 0U20 | 100 | 40 | 114 | M105x2 | 30 | 65 | 55 | 3,2  |
| WTPC- 0U21 | 110 | 45 | 124 | M115x2 | 36 | 70 | 60 | 4,19 |
| WTPC- 0U22 | 120 | 50 | 139 | M125x2 | 36 | 70 | 60 | 5,01 |
| WTPC- 0U23 | 125 | 60 | 144 | M130x2 | 41 | 75 | 65 | 5,4  |
| WTPC- 0U24 | 140 | 70 | 159 | M145x2 | 41 | 75 | 65 | 6,46 |
| WTPC- 0U25 | 150 | 70 | 169 | M155x2 | 46 | 82 | 70 | 8,55 |
| WTPC- 0U26 | 160 | 80 | 179 | M165x2 | 49 | 85 | 73 | 9,72 |

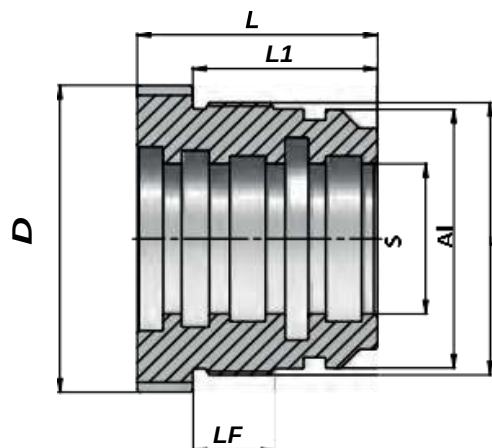
MATERIAL  
HYDRAULIC CAST IRON EN GJL 250 (G 25 UNI 5007 EN 1561)

## HEAD BUSH



| WTPE       |     |    |     |         |    |    |    |      |
|------------|-----|----|-----|---------|----|----|----|------|
| Code       | ØAL | ØS | ØD  | F       | LF | L  | L1 | kg   |
| WTPE- 1000 | 40  | 20 | 49  | M44x1.5 | 11 | 33 | 26 | 0,22 |
| WTPE- 1001 | 50  | 25 | 59  | M54x1.5 | 13 | 36 | 28 | 0,38 |
| WTPE- 1002 | 60  | 30 | 69  | M64x1.5 | 16 | 41 | 33 | 0,62 |
| WTPE- 1003 | 70  | 35 | 79  | M74x1.5 | 16 | 41 | 33 | 0,84 |
| WTPE- 1004 | 80  | 40 | 92  | M85x2   | 18 | 46 | 36 | 1,24 |
| WTPE- 1005 | 100 | 50 | 114 | M105x2  | 22 | 55 | 45 | 2,32 |

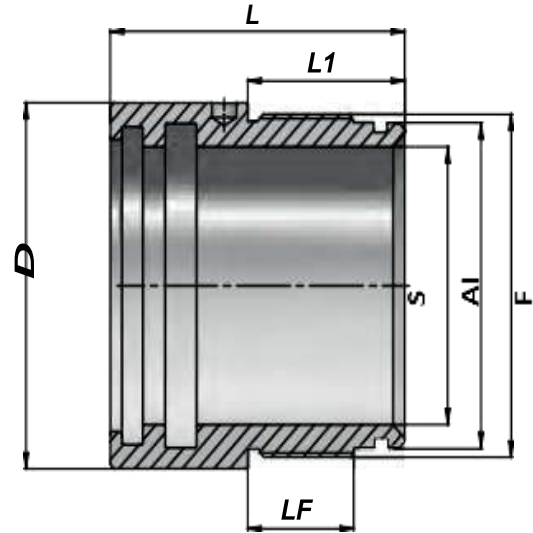
MATERIAL  
HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007\_EN 1561)



| WTP20       |     |     |     |          |    |     |     |       |
|-------------|-----|-----|-----|----------|----|-----|-----|-------|
| Code        | ØAL | ØS  | ØD  | F        | LF | L   | L1  | kg    |
| WTP20- H047 | 50  | 25  | 64  | M54x1.5  | 22 | 55  | 45  | 0,66  |
| WTP20- H048 | 60  | 30  | 74  | M64x1.5  | 22 | 60  | 48  | 1     |
| WTP20- H049 | 63  | 35  | 78  | M68x1.5  | 22 | 60  | 48  | 1,04  |
| WTP20- H050 | 70  | 35  | 84  | M74x1.5  | 22 | 65  | 50  | 1,48  |
| WTP20- H051 | 80  | 40  | 94  | M85x2    | 25 | 75  | 60  | 2,18  |
| WTP20- H052 | 90  | 45  | 109 | M95x2    | 25 | 75  | 60  | 2,84  |
| WTP20- H053 | 100 | 45  | 119 | M105x2   | 25 | 75  | 60  | 3,8   |
| WTP20- H054 | 110 | 50  | 129 | M115x2   | 30 | 85  | 70  | 5,07  |
| WTP20- H055 | 120 | 60  | 139 | M125x2   | 30 | 85  | 70  | 5,68  |
| WTP20- H056 | 125 | 70  | 144 | M130x2   | 39 | 90  | 75  | 5,99  |
| WTP20- H057 | 140 | 80  | 159 | M145x2   | 40 | 90  | 75  | 7,22  |
| WTP20- H058 | 150 | 80  | 169 | M155x2   | 46 | 100 | 85  | 9,85  |
| WTP20- H059 | 160 | 100 | 179 | M165x2   | 46 | 100 | 85  | 9,43  |
| WTP20- H060 | 180 | 100 | 215 | M188x2.5 | 60 | 125 | 107 | 18,06 |
| WTP20- H061 | 200 | 100 | 225 | M208x2.5 | 60 | 125 | 107 | 23,63 |
| WTP20- H062 | 220 | 120 | 245 | M228x2.5 | 65 | 130 | 112 | 27,82 |
| WTP20- H063 | 250 | 150 | 275 | M258x2.5 | 80 | 150 | 130 | 37,42 |
| WTP20- H064 | 300 | 150 | 335 | M308x3   | 95 | 180 | 155 | 77,05 |

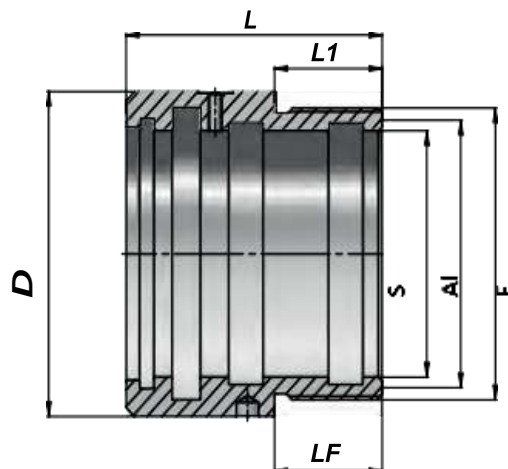
MATERIAL  
STEEL UNI C 40

## HEAD BUSH



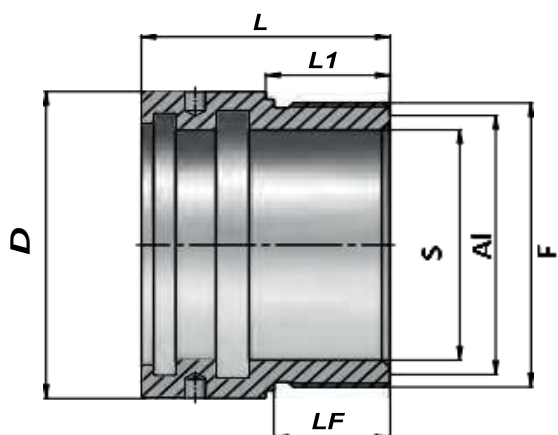
| WTPA3      |    |     |      |         |    |    |    |      |
|------------|----|-----|------|---------|----|----|----|------|
| Code       | ØS | ØAL | ØD   | F       | LF | L  | L1 | kg   |
| WTPA3-103A | 20 | 30  | 39.0 | M34x1.5 | 15 | 57 | 27 | 0,25 |
| WTPA3-103A | 25 | 35  | 44.0 | M39x1.5 | 19 | 65 | 32 | 0,34 |
| WTPA3-103A | 30 | 40  | 49.0 | M44x1.5 | 19 | 65 | 32 | 0,39 |
| WTPA3-103A | 35 | 45  | 54.0 | M49x1.5 | 19 | 65 | 32 | 0,44 |
| WTPA3-103A | 40 | 50  | 59.0 | M54x1.5 | 22 | 70 | 35 | 0,53 |
| WTPA3-103A | 45 | 55  | 64.0 | M60x1.5 | 22 | 70 | 35 | 0,59 |
| WTPA3-103A | 50 | 60  | 69.0 | M64x1.5 | 22 | 75 | 40 | 0,67 |
| WTPA3-103A | 60 | 70  | 79.0 | M74x1.5 | 27 | 75 | 40 | 0,78 |

MATERIAL  
HYDRAULIC CAST IRON EN GJL 250G (25 UNI 5007 \_ EN 156)



| WTPA4      |     |     |       |        |    |     |    |      |
|------------|-----|-----|-------|--------|----|-----|----|------|
| Code       | ØS  | ØAL | ØD    | F      | LF | L   | L1 | kg   |
| WTPA4-103A | 70  | 85  | 100.0 | M90x2  | 30 | 90  | 30 | 1,99 |
| WTPA4-103A | 80  | 90  | 107.0 | M96x2  | 40 | 95  | 40 | 1,9  |
| WTPA4-103A | 100 | 120 | 138.5 | M124x2 | 42 | 157 | 42 | 7,12 |

MATERIAL  
STEEL ST 52.3 UNI C40

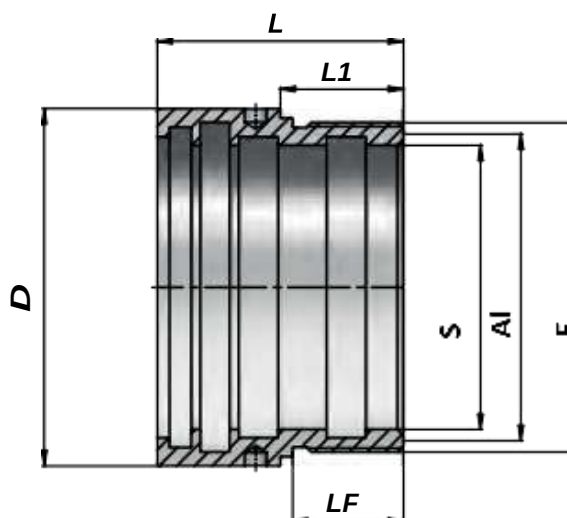


| WTPZ5      |    |     |    |         |    |    |    |      |
|------------|----|-----|----|---------|----|----|----|------|
| Code       | ØS | ØAL | ØD | F       | LF | L  | L1 | kg   |
| WTPZ5-320Z | 20 | 30  | 40 | M34x1.5 | 18 | 42 | 20 | 0,22 |
| WTPZ5-321Z | 25 | 30  | 40 | M34x1.5 | 18 | 42 | 20 | 0,15 |
| WTPZ5-322Z | 30 | 40  | 50 | M44x1.5 | 19 | 46 | 21 | 0,33 |
| WTPZ5-323Z | 35 | 40  | 50 | M44x1.5 | 19 | 46 | 21 | 0,23 |
| WTPZ5-324Z | 40 | 50  | 60 | M54x1.5 | 28 | 59 | 30 | 0,53 |
| WTPZ5-325Z | 45 | 50  | 60 | M54x1.5 | 28 | 59 | 30 | 0,37 |
| WTPZ5-326Z | 50 | 60  | 70 | M64x1.5 | 28 | 60 | 30 | 0,63 |
| WTPZ5-327Z | 60 | 70  | 80 | M74x1.5 | 28 | 60 | 30 | 0,75 |

MATERIAL

STEEL 95MN28 WIH NI.TEPER TREATMENT

# HEAD BUSH



| WTPZ6       |     |     |     |        |    |     |    |      |
|-------------|-----|-----|-----|--------|----|-----|----|------|
| Code        | ØS  | ØAL | ØD  | F      | LF | L   | L1 | kg   |
| WTPZ6- 320Z | 70  | 80  | 95  | M85x2  | 32 | 70  | 35 | 1,05 |
| WTPZ6- 321Z | 80  | 90  | 105 | M95x2  | 36 | 80  | 40 | 1,38 |
| WTPZ6- 322Z | 90  | 100 | 115 | M105x2 | 36 | 80  | 40 | 1,41 |
| WTPZ6- 323Z | 100 | 110 | 125 | M115x2 | 45 | 100 | 50 | 2,02 |

MATERIAL  
STEEL ST 52.3\_UNI C40



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