



Pull-Type Cylinder
single acting with spring return,
max. operating pressure 500 bar



Tolerances for length and angle dimensions as per DIN 7168-m

Material

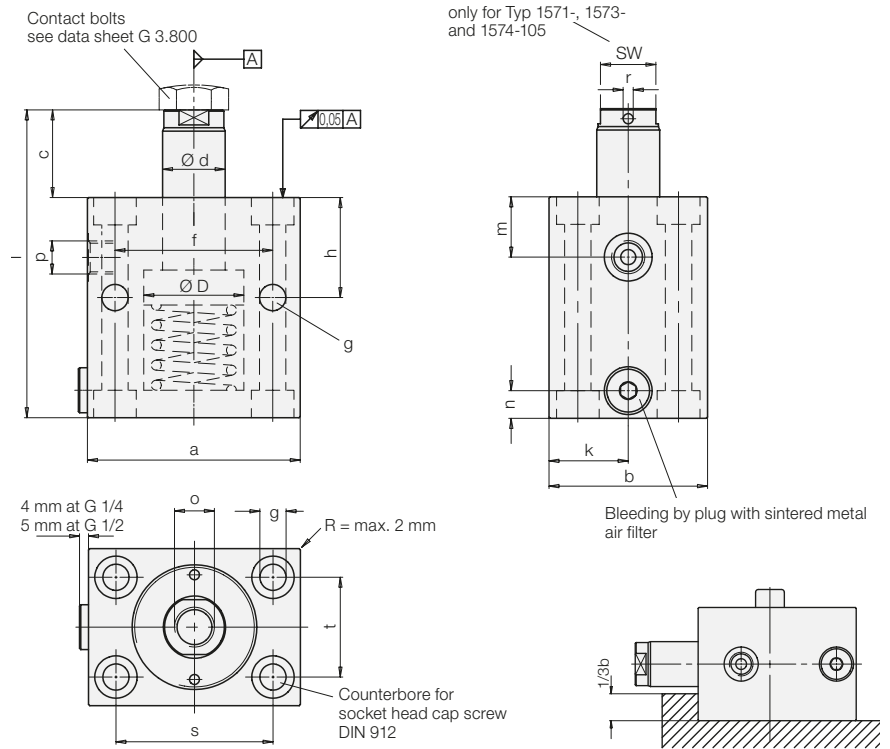
Piston material: case-hardening steel, hardened
Cylinder body: high alloy steel or GGG-40

Important notes

If there is a possibility that aggressive cutting lubricants and coolants penetrate through the sintered metal air filter into the cylinder's interior, a vent hose has to be connected and be placed in a protected position.

Operating conditions, tolerances and other data see data sheet A 0.100.

It is absolutely necessary to follow the instructions for venting of the spring area on data sheet A 0.110



Cylinders must be supported at the front for operating pressures exceeding 250 bar

| | | | | | | | | | | |
|-----------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| Piston Ø D | [mm] | 16 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | |
| Rod Ø d | [mm] | 10 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | |
| Force to pull at | 100 bar | [kN] | 1.1 | 2.7 | 4.6 | 7.3 | 11.0 | 17.9 | 29.2 | 45.6 |
| | 500 bar | [kN] | 6.0 | 14.3 | 24.2 | 37.9 | 57.3 | 92.3 | 151.8 | 235.0 |
| Spring return force, min. | [N] | 40 | 140 | 195 | 270 | 440 | 430 | 760 | 1200 | |
| Oil volume per 10 mm stroke | [cm ³] | 1.22 | 2.9 | 4.9 | 7.65 | 11.6 | 18.6 | 30.63 | 47.36 | |
| a | [mm] | 60 | 65 | 75 | 85 | 100 | 125 | 160 | 200 | |
| b | [mm] | 35 | 45 | 55 | 63 | 75 | 95 | 120 | 150 | |
| c | [mm] | 22 | 27 | 35 | 35 | 35 | 44 | 46 | 55 | |
| f | [mm] | 30 | 50 | 55 | 63 | 76 | 95 | 120 | 158 | |
| g | [mm] | 6.5 | 8.5 | 10.5 | 10.5 | 13 | 17 | 21 | 25 | |
| h | [mm] | 30 | 33 | 38 | 40 | 44 | 50 | 60 | 64 | |
| k | [mm] | 17.5 | 22.5 | 27.5 | 31.5 | 37.5 | 47.5 | 60 | 75 | |
| m | [mm] | 16.5 | 18 | 22 | 24 | 27 | 26 | 34 | 35 | |
| n | [mm] | 11 | 11 | 11 | 11 | 13 | 17 | 21 | 25 | |
| o x depth of thread | [mm] | M 6 x 12 | M 10 x 15 | M 12 x 15 | M 16 x 25 | M 20 x 25 | M 27 x 40 | M 30 x 40 | M 42 x 60 | |
| p | | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/2 | G 1/2 | G 1/2 | |
| r | [mm] | — | — | — | 4 | 4 | 4 | 5 | 6 | |
| s | [mm] | 40 | 50 | 55 | 63 | 76 | 95 | 120 | 158 | |
| t | [mm] | 22 | 30 | 35 | 40 | 45 | 65 | 80 | 108 | |
| SW | [mm] | 8 | 13 | 17 | — | — | — | — | — | |
| Stroke ± 1 | [mm] | 8 | 8 | 10 | 10 | 12 | 12 | 12 | 12 | |
| l ± 1 | [mm] | 78 | 91 | 110 | 114 | 125 | 146 | 163 | 185 | |
| Weight | [kg] | 0.8 | 1.2 | 1.8 | 2.6 | 3.8 | 6.7 | 12.8 | 24 | |
| Temp. up to 100 °C | Part no. | 1571-105 | 1573-105 | 1574-105 | 1575-105 | 1576-105 | 1577-105 | 1578-105 | 1579-105 | |
| Temp. up to 150 °C (FKM) | Part no. | 1571-106 | 1573-106 | 1574-106 | 1575-106 | 1576-106 | 1577-106 | 1578-106 | 1579-106 | |