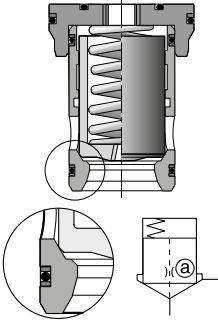
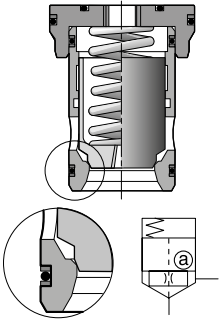
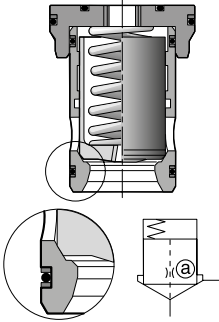
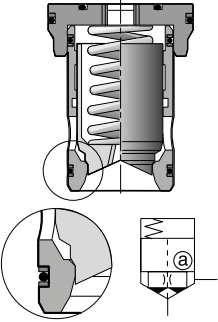
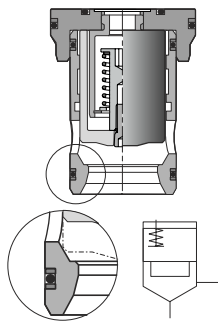
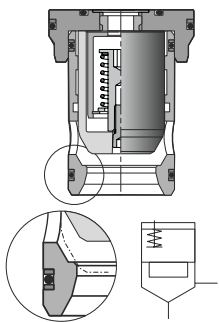
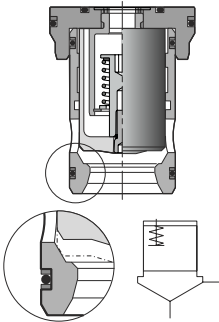
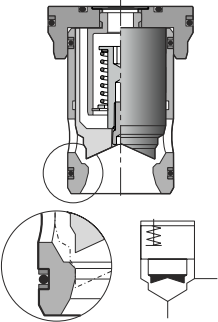


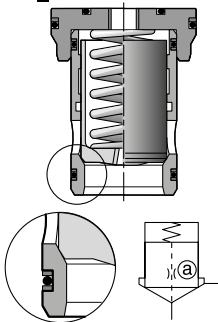
**Cartridge valve for directional function
normally closed**

| | | | |
|---|---|--|--|
| <p>CE*_01</p>  <p>1 : 1 $A_A = A_C$</p> | <p>CE*_04</p>  <p>1 : 1.67 $A_A = 0.6 A_C$ $A_B = 0.4 A_C$</p> | <p>CE*_07</p>  <p>1 : 1.04 $A_A = 0.96 A_C$</p> | <p>CE*_08</p>  <p>1 : 1.67 $A_A = 0.6 A_C$ $A_B = 0.4 A_C$ dampening poppet</p> |
|---|---|--|--|

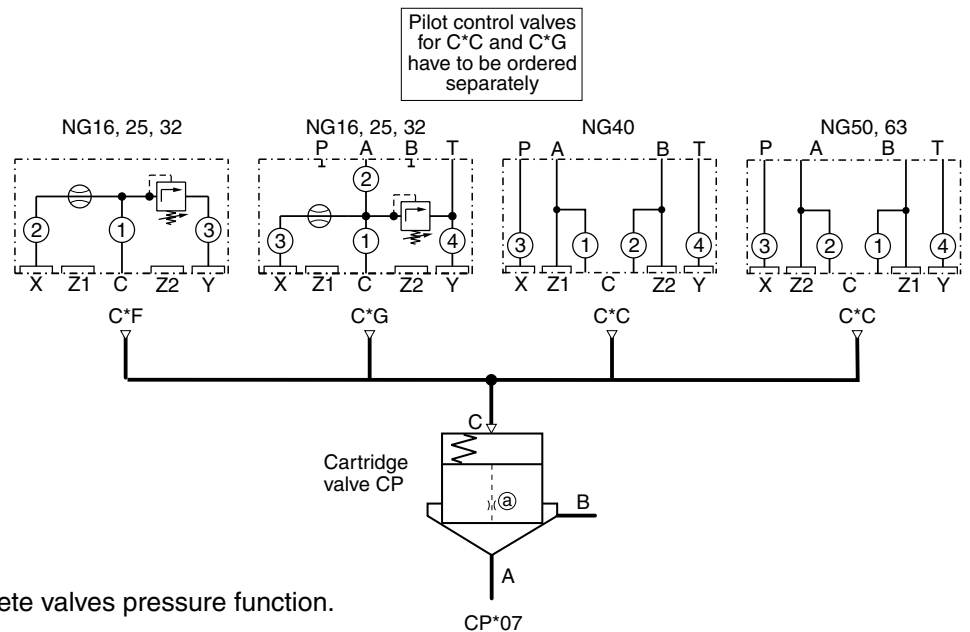
Normally open

| | | | |
|--|--|---|---|
| <p>CE*F01</p>  <p>1 : 1 $A_A = A_C$</p> | <p>CE*F04</p>  <p>1 : 1.67 $A_A = 0.6 A_C$ $A_B = 0.4 A_C$</p> | <p>CE*F07</p>  <p>1 : 1.04 $A_A = 0.96 A_C$</p> | <p>CE*F08</p>  <p>1 : 1.67 $A_A = 0.6 A_C$ $A_B = 0.4 A_C$ dampening poppet</p> |
|--|--|---|---|

**Cartridge valve for
pressure function**

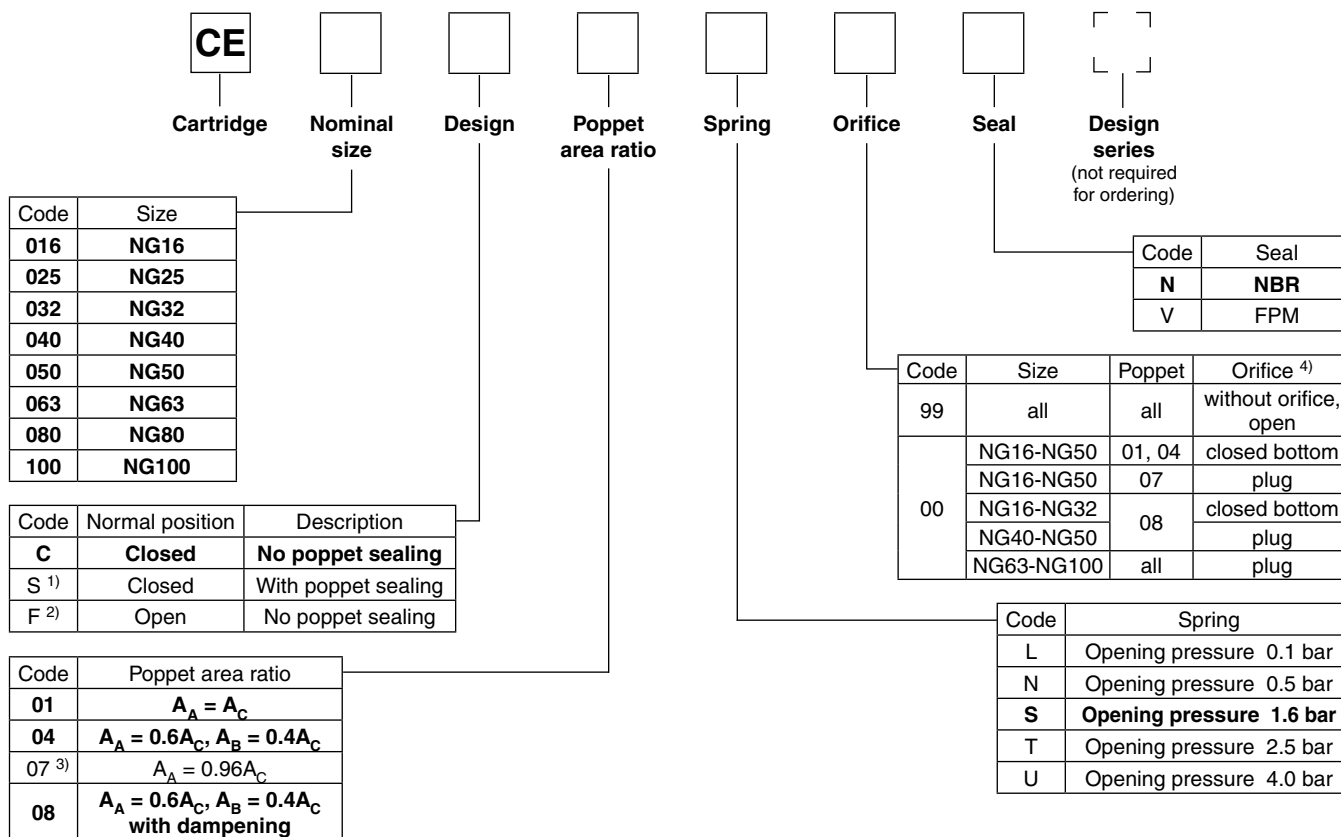
| |
|---|
| <p>CP*_07</p>  <p>1 : 1.04 $A_A = 0.96 A_C$ normally closed</p> |
|---|

Pilot control for pressure function



Characteristic curves see complete valves pressure function.

Ordering Code



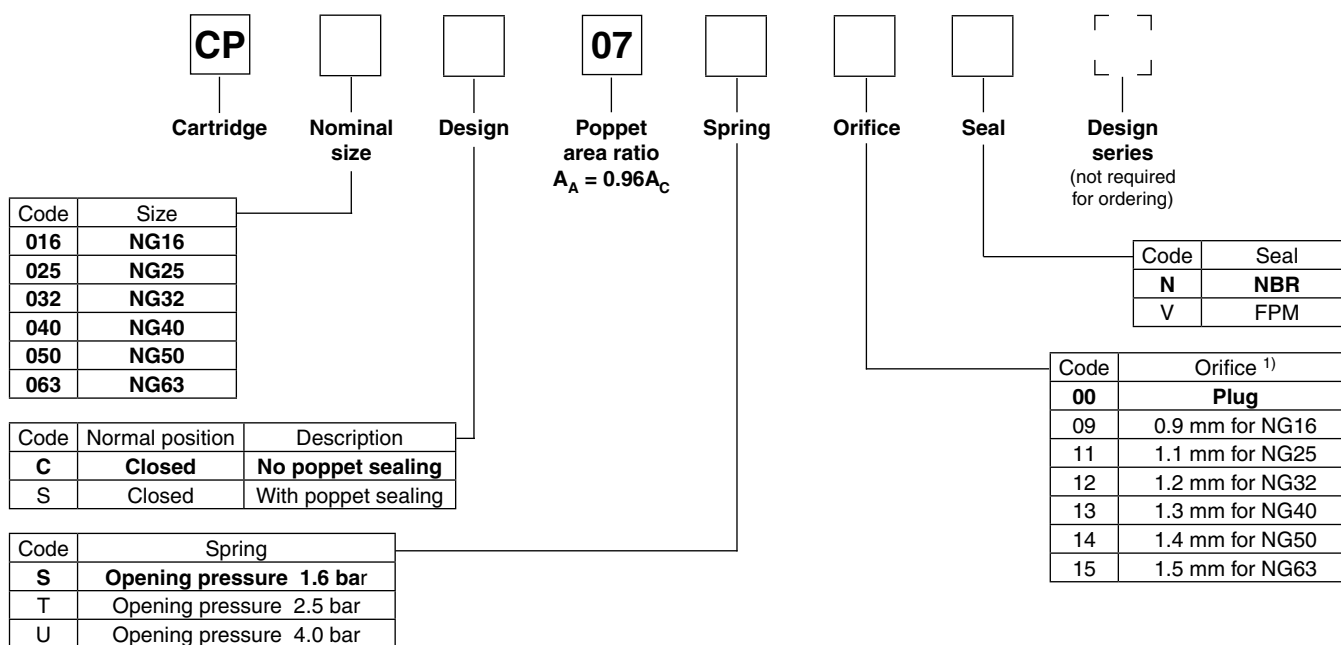
¹⁾ Only for spring S, T and U. Not for poppet code 01 (NG16 to NG63).

²⁾ Only with spring code L, only with closed bottom.

³⁾ Not for NG80 and NG100.

⁴⁾ Orifice size in 1/10 mm, eg. 1.2 mm orifice - code 12. Thread size 1/16 NPTF.

8



Bold letters =
Short-term availability

For spare parts see "Accessories" in this chapter.
For orifice recommendations see "Combination Examples" in this chapter.

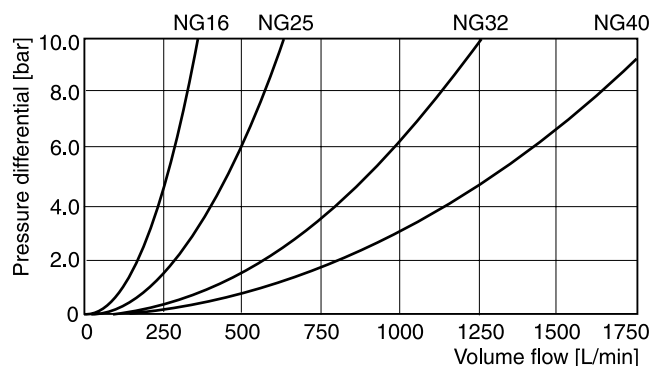
¹⁾ Recommended diameter.

Technical data

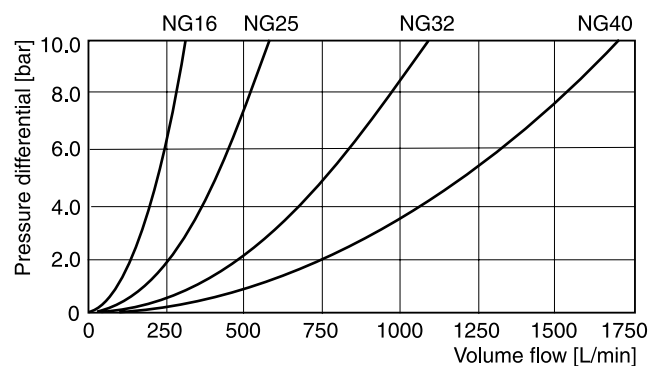
| General | | | | | | | | | | | |
|--------------------------|----------------------|---------|---|----------------------------|--------------|---------|---------|---------|---------|----------|-------|
| Design type | | | 2-way slip-in cartridge valves according to ISO 7368 | | | | | | | | |
| Actuation | | | hydraulic | | | | | | | | |
| Mounting position | | | unrestricted | | | | | | | | |
| Ambient temperature | | | [C°] | -20....+60 | | | | | | | |
| MTTF _D value | | | [years] | 150 | | | | | | | |
| Nominal size | | | | NG16 | NG25 | NG32 | NG40 | NG50 | NG63 | NG80 | NG100 |
| Weight | cartridge | [kg] | | 0.3 | 0.6 | 1.1 | 1.7 | 3.7 | 7.1 | 12.8 | 27 |
| Hydraulic | | | | | | | | | | | |
| Operating pressure | without pilot valve | [bar] | 420 | | | | | | | | |
| | port A, B, X, Z1, Z2 | [bar] | 350, 420 (depending on p _{max} of pilot valves) | | | | | | | | |
| | port Y | [bar] | According to pilot system, max. 350 (depending on p _{max} of pilot valves) | | | | | | | | |
| Nominal flow at Δp 5 bar | poppet 01, 04, 07 | [l/min] | 250 | 450 | 900 | 1350 | 1800 | 3600 | 5250 | 8000 | |
| | poppet 08 | [l/min] | 230 | 400 | 800 | 1250 | 1625 | 3400 | 5000 | 7500 | |
| Pilot volume requirement | at poppet 01 | [cm³] | 2.0 | 6.5 | 10.2 | 17.4 | 34.5 | 77.4 | 190.1 | 342.6 | |
| | at poppet 04 | | 2.0 | 6.5 | 12.2 | 20.3 | 39.4 | 94.6 | 190.1 | 363.4 | |
| | at poppet 07 | | 2.0 | 6.5 | 10.2 | 17.4 | 34.5 | 77.4 | — | — | |
| | at poppet 08 | | 2.0 | 7.4 | 15.3 | 23.2 | 49.2 | 111.8 | 217.3 | 415.3 | |
| Opening pressure | flow direction A → B | [bar] | Poppet 01 / 07 | | spring: | L = 0.1 | N = 0.5 | S = 1.6 | T = 2.5 | U = 4.0 | |
| | | | Poppet 04 / 08 | | spring: | L = 0.2 | N = 0.9 | S = 2.7 | T = 4 | U = 6.6 | |
| Opening pressure | flow direction B → A | [bar] | Poppet 01 / 07 | | not possible | | | | | | |
| | | | Poppet 04 / 08 | | spring: | L = 0.3 | N = 1.3 | S = 4.0 | T = 6.3 | U = 10.0 | |
| Fluid | | | Hydraulic oil according to DIN 51524 | | | | | | | | |
| Fluid temperature | | | [C°] | -20...+70 (NBR: -25...+70) | | | | | | | |
| Viscosity, | permitted | [mm²/s] | 20...400 | | | | | | | | |
| | recommended | [mm²/s] | 30...80 | | | | | | | | |
| Filtration | | | ISO 4406 (1999): 18/16/13 | | | | | | | | |

Performance curves (without spring and poppet seal, C-chamber unloaded)

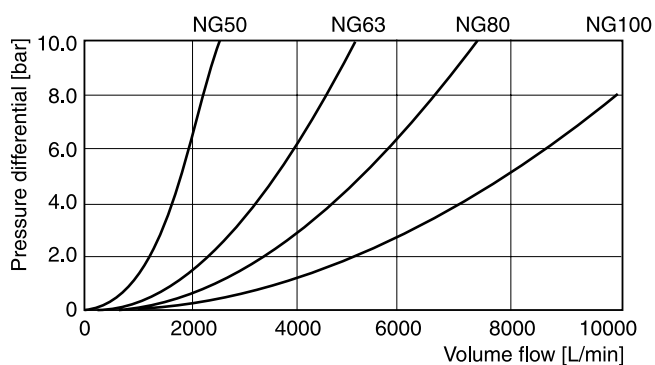
Poppet 01, 04, 07



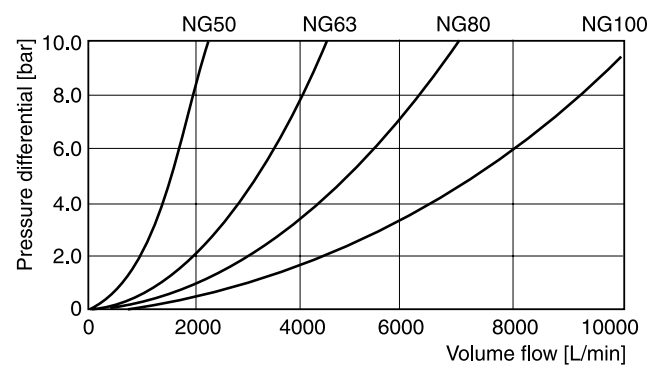
Poppet 08



Poppet 01, 04, 07



Poppet 08



All characteristic curves measured with HLP46 at 50 °C.

CE-C UK.INDD10.04.19