2-way cartridge CEE

Product description

2-way cartridge valves are logic elements for the installation in hydraulic control blocks, which allow a very compact design. They have two operational ports (A and B) and a pilot port (X). The flow can be directed from A to B or from B to A, depending on the valve function. A control cover and, in most cases, a pilot valve are required for a complete valve function. The valves are installed in a cavity standardized in accordance with ISO 7368.

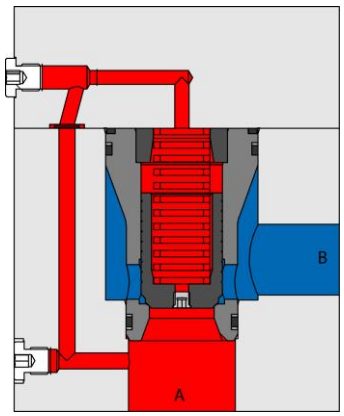
Characteristics

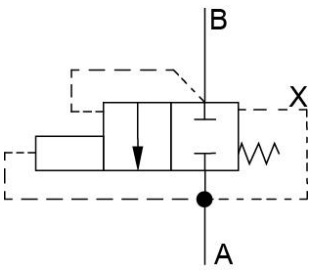
- Compact design
- Optional damping
- Low pressure loss (Δ p)
- High flexibility in the control block design
- Short response times
- Easy replacement of elements for maintenance

description	flow	Pressure port A, B, X
CEE16B6	200 l/min	420
CEE25B6	400 l/min	420
CEE32B6	800 l/min	420
CEE40B6	1350 l/min	420
CEE50B6	2700 l/min	420
CEE64B6	4500 l/min	420

cone B△p = 8bar

principle of operation





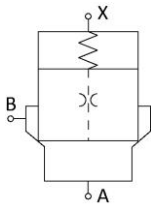
Directional control valve function
with piloting source from port A.
A-B = locked
B-A = free volume flow

Applications

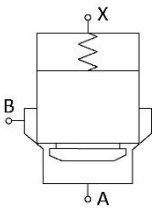
2-way cartridge valves can be used in a wide range of applications. With the modular design and the use of appropriate control covers and pilot valves, it is possible to realize different functions like directional valve, check valve or pressure valve functions up to complex control block functions.

Cone Types

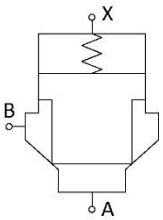
cone A:
Pressure valve function
control area ratio 1:1



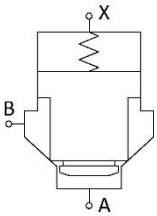
cone D
with additional
damping nose:
control area ratio 1:1



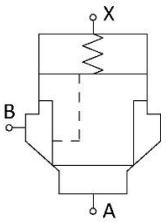
conel B:
Directional valve function
control area ratio 1:1,6



cone C
with additional
damping nose:
control area ratio 1:1,6

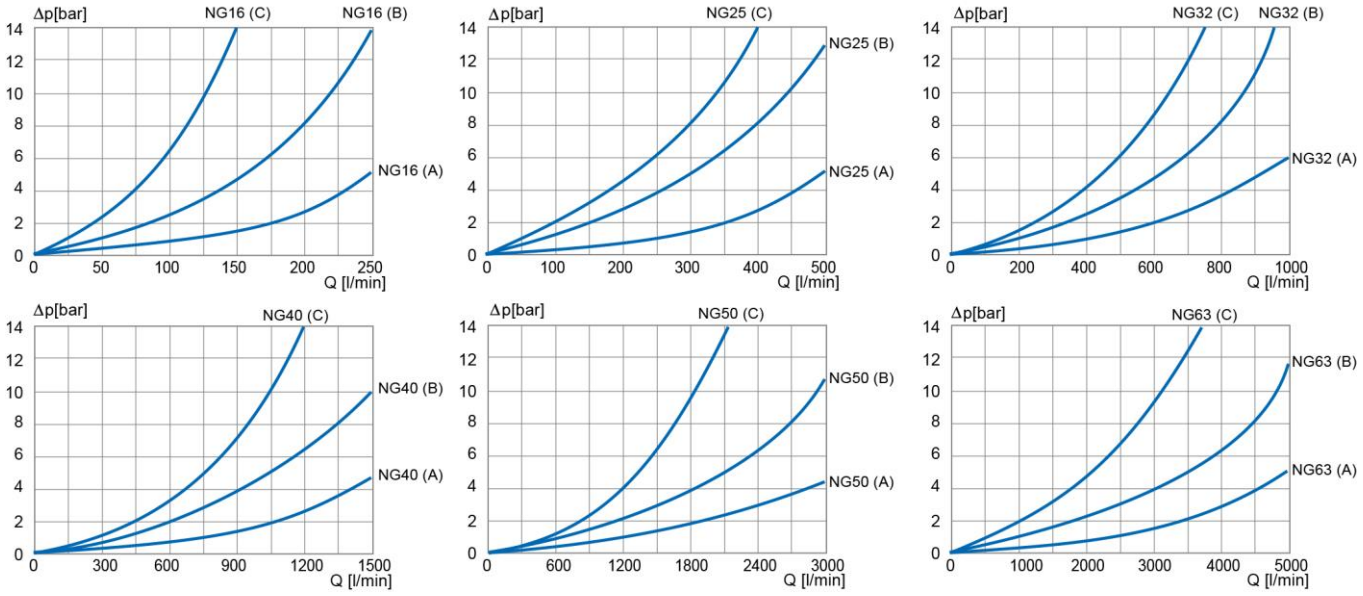


cone R:
Check valve function
control area ratio 1:1,6



All cones are also available with an internal pilot oil supply.

Characteristic curves NG16 – NG63



Type Code

CEE	XX	X	X	X	XXX

DIN ISO7368
16
25
32
40
50
63

cone design
A 1:1
D 1.1 with damping
B 1:1,6 reduced seat
C 1:1,6 reduced seat + damping nose
R 1:1,6 reduced seat

spring		
cone A, D	cone B, C, R	
0,6 bar	1,0 bar	S
1,2 bar	2,0 bar	T
2,4 bar	4,0 bar	U
3,7 bar	6,0 bar	V

seal	
NBR temperature range 25°C bis +80°C	N
FKM / Viton temperature range 20°C bis +120°C	V

nozzle in cone	
Cone with plug	K00
Cone with thread, without nozzle	K99
Cone without hole	KOB
Nozzle size 0.6	K06
Nozzle size 0.8	K08
Nozzle size 1.0	K10
Nozzle size 1.2	K12
Nozzle size 1.5	K15
Nozzle size 2.0	K20
Nozzle size 2.2	K22
Nozzle size 2.5	K25