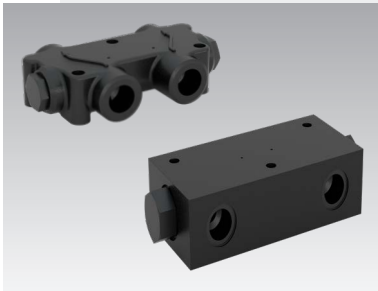
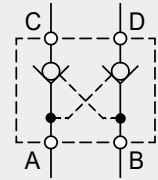


## Mobile Classic check valve VCP



hydraulically unlockable  
operating pressure max. 320 bar  
volume flow max. 200 l/min  
in-line body or flangeable



130110\_MobileClassic\_VCP\_en  
10.2022

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### Characteristics

- poppet type check valve
- operating pressure up to 320 bar
- hydraulically unlockable check valve, opening in locking direction
- very robust construction due to cast housing and hardened valve parts
- installation in in-line body, or directly flangeable
- double-sided and single-sided locking
- available with two opening ratios
- leak-free
- maintenance-free
- low vibration

**Technical data**

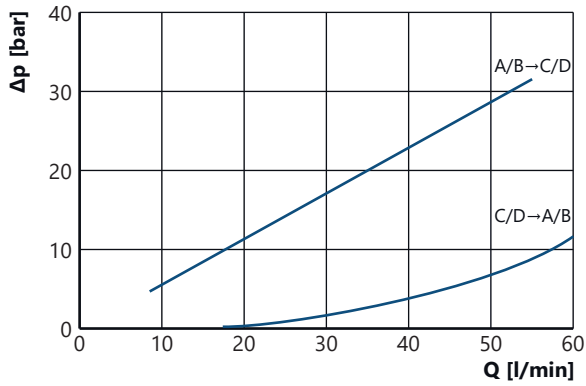
<i>Hydraulic</i>	Operating pressure max:	320 bar
	Flow rate:	60 l/min, 200 l/min
	Opening ratio:	1 : 4 and 1 : 40 (1 : 42)
	Opening pressure:	0,5 bar
	Area ratio at cylinder:	3 : 1
	Flow direction:	A to C, B to D free flow C to A, D to B locked, hydraulically unlockable
	Hydraulic fluid:	mineral oil according to DIN 51524 (HL/HLP), other hydraulic fluids upon request
	Viscosity range:	10 - 1550 cSt
	Filtration:	oil cleanliness according to ISO 4406 (1999) 19/15

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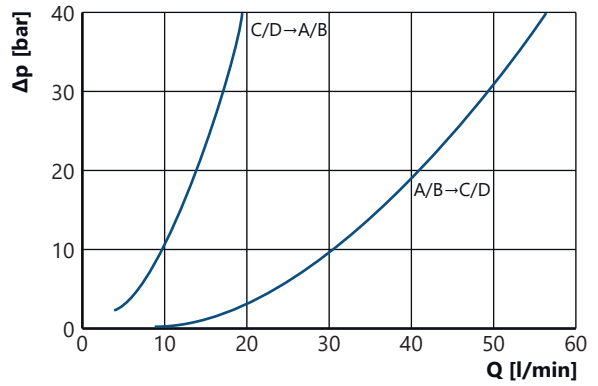
<i>Mechanic</i>	Design :	poppet check valve, in in-line body or flangeable
	Size:	8 or 12
	Fluid temperature:	-20 °C to +80 °C
	Ambient temperature:	-20 °C to +50 °C
	Storage temperature:	-30 °C to +60 °C (non-condensing)
	Installation position:	any
	Weight:	size 8: 1,6 kg size 12: 6,7 kg
	Material:	valve parts: steel body: cast iron seals: NBR, Viton or EPDM optional
	Surface protection:	body: manganese phosphatized

**Performance**

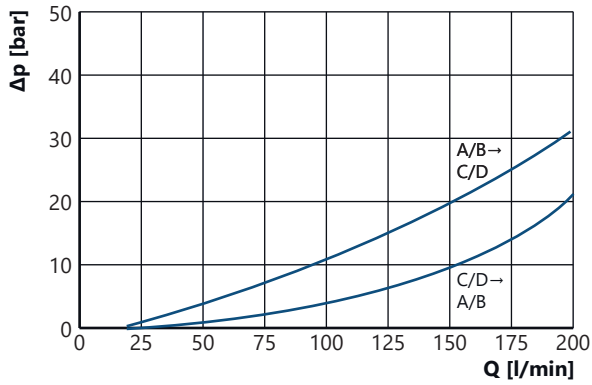
Pressure drop diagram ( $\Delta p/Q$ ) VCPD and VCPS 8  
1 : 4 at  $I_N$



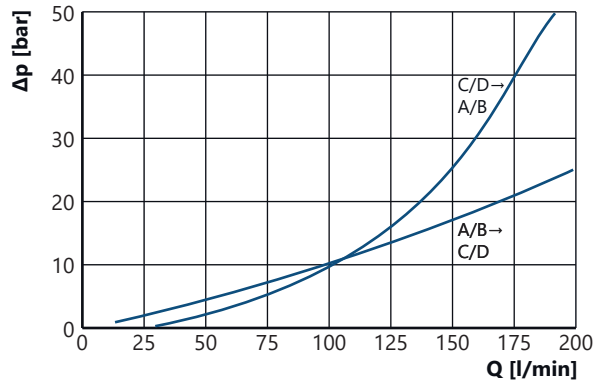
Pressure drop diagram ( $\Delta p/Q$ ) VCPD and VCPS 8  
1 : 40 at  $I_N$



Pressure drop diagram ( $\Delta p/Q$ ) VCPD and VCPS 12  
1 : 4 at  $I_N$



Pressure drop diagram ( $\Delta p/Q$ ) VCPD and VCPS 12  
1 : 40 at  $I_N$

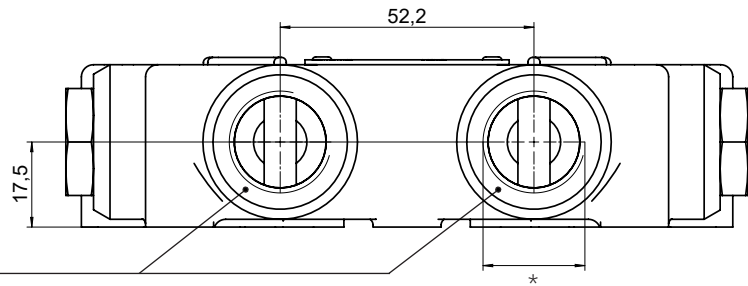


*Test conditions*

Oil: HLP 32, temperature: 40 °C (~32 cSt)  
Higher viscosity changes the performance diagrams.

**Dimensions**

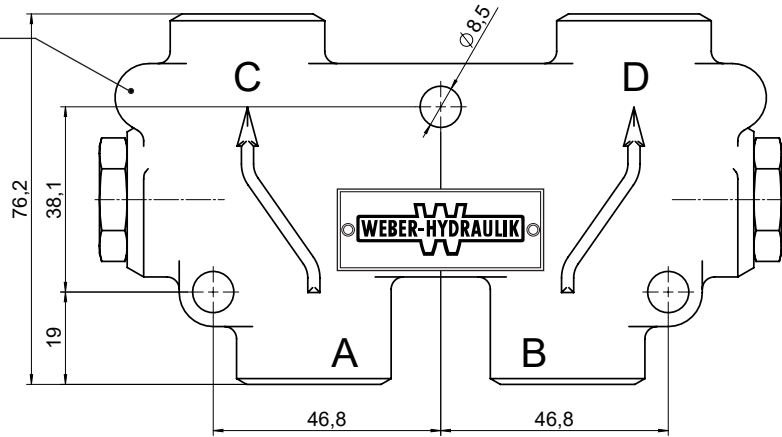
*Check Valve VCP  
size 8  
mounting interface G*



port A and B

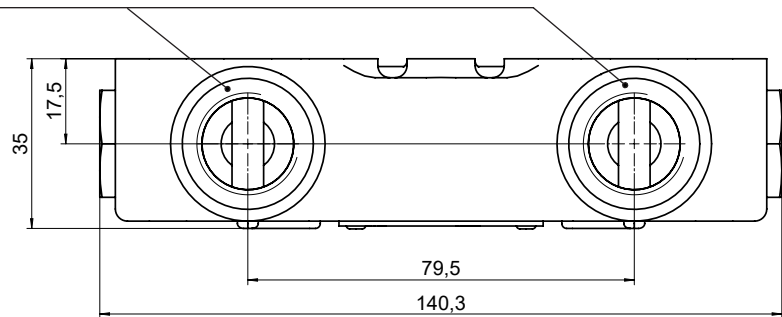
\* thread according to type code

cast manifold



port C and D

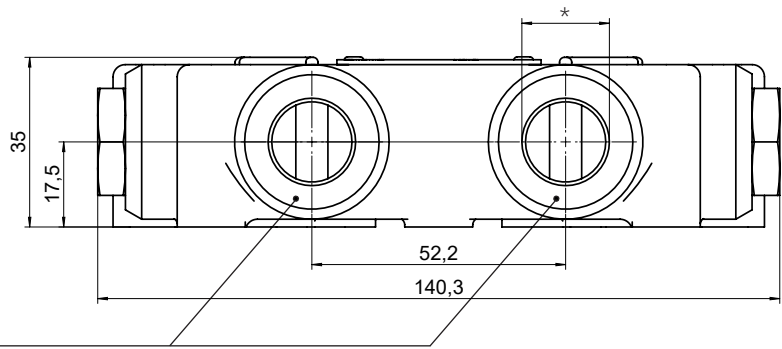
\* thread according to type code



VCPD8 in-line body

**Dimensions**

Check Valve VCP  
size 8  
mounting interface F



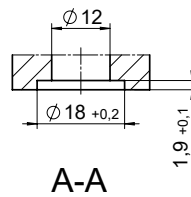
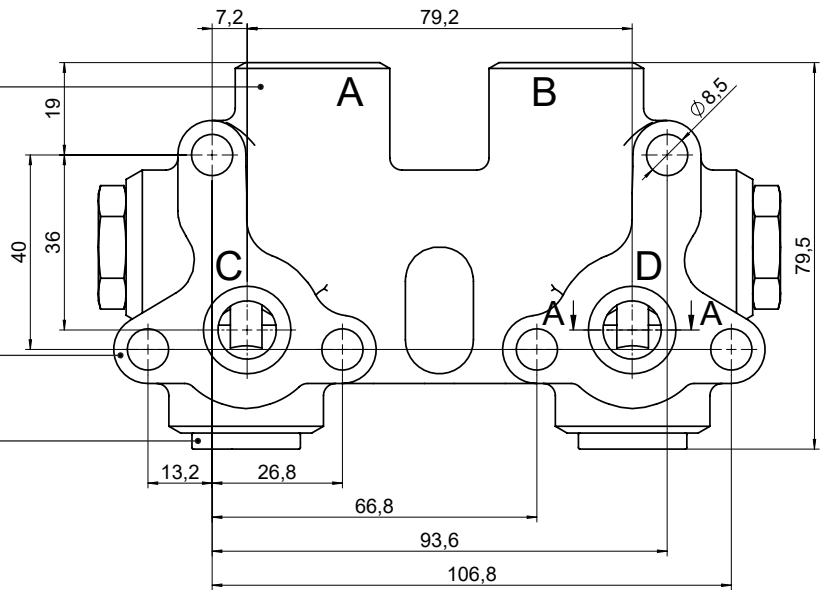
port A and B

\* thread according to type code

cast manifold

port pattern  
(company standard)

screw plugs

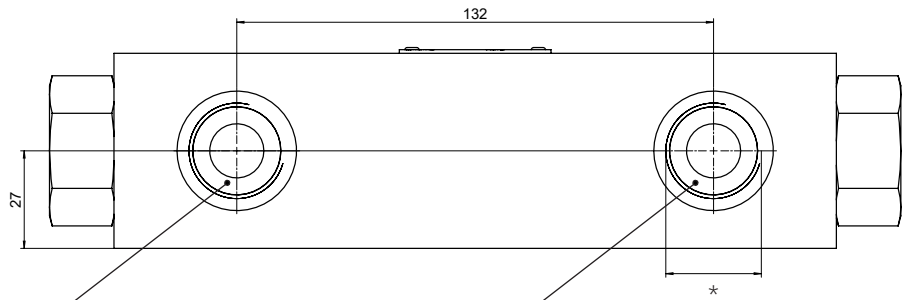


VCPD8 flange body

**NOTE** The valve must be mounted with fitting screws M8 - 10.9.

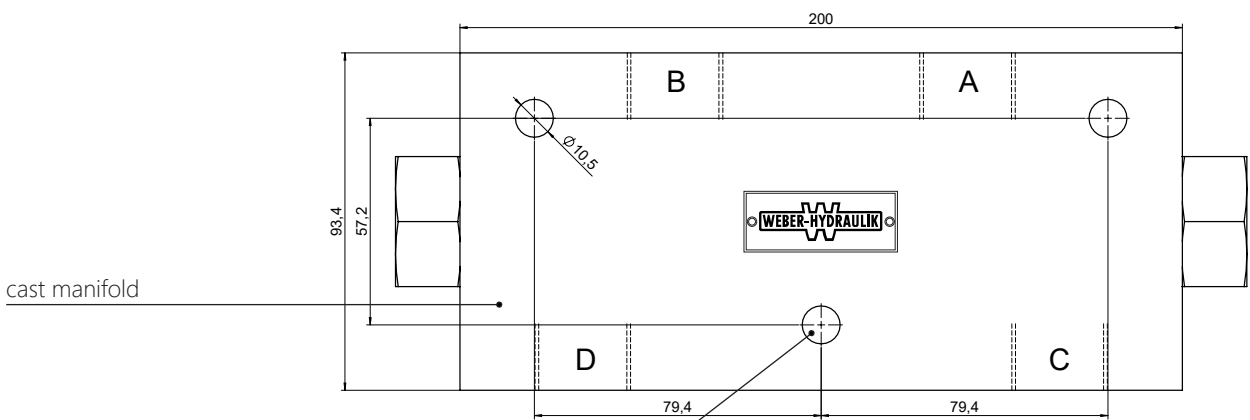
**Dimensions**

Check Valve VCP  
size 12



port C and D

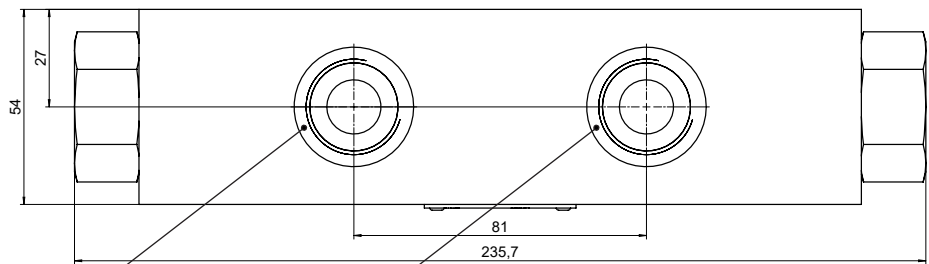
\* thread according to type code



cast manifold

port pattern (company standard)

Ø 10,5



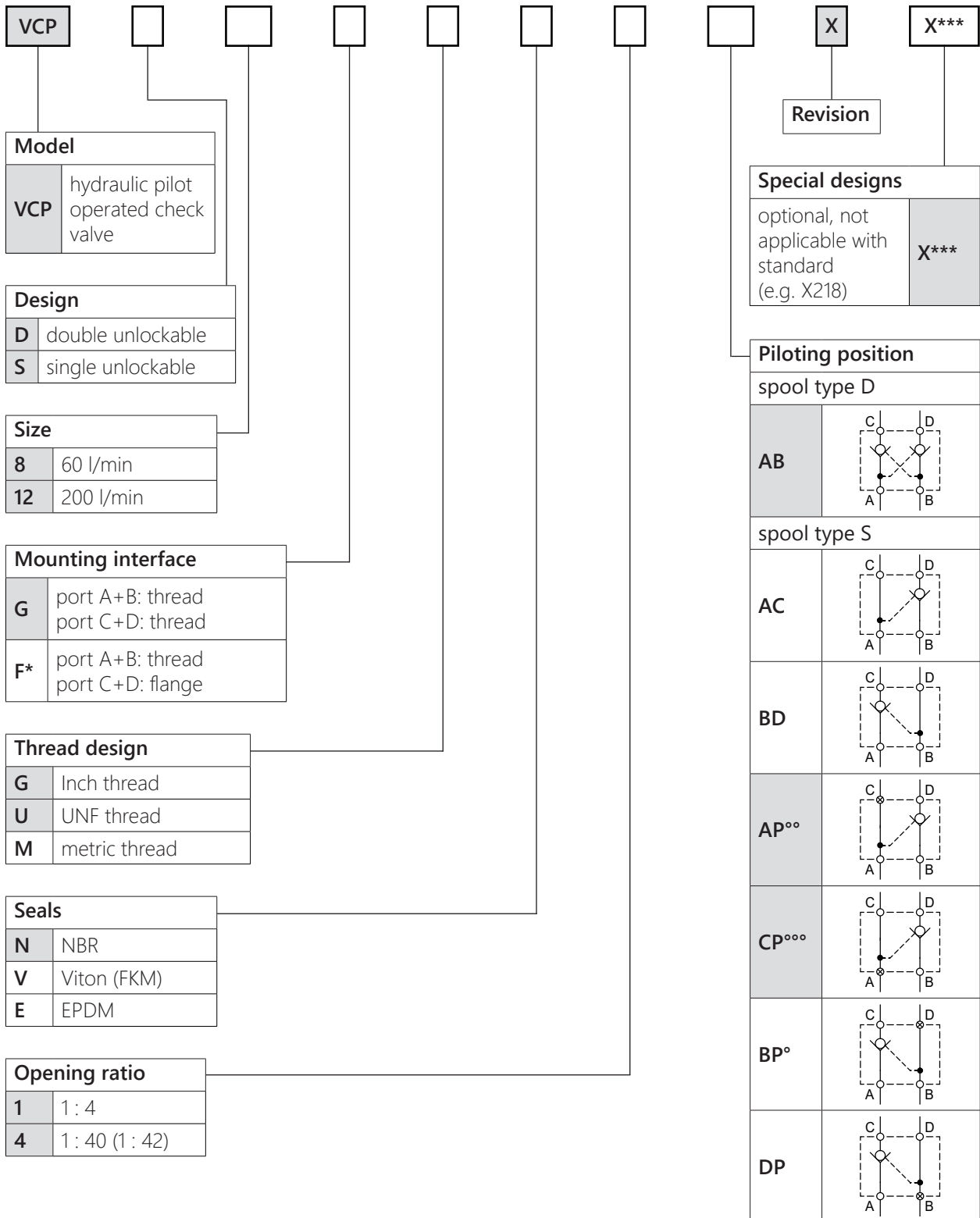
port A and B

\* thread according to type code

VCPD12 in-line body

**NOTE** The valve must be mounted with fitting screws M10 - 10.9.

**Type code**



**NOTE**  Grey marking corresponds to standard version.

- \* F only available in size 8
- ° not available for mounting interface F
- °° AP: standard size 8
- °°°CP: standard size 12

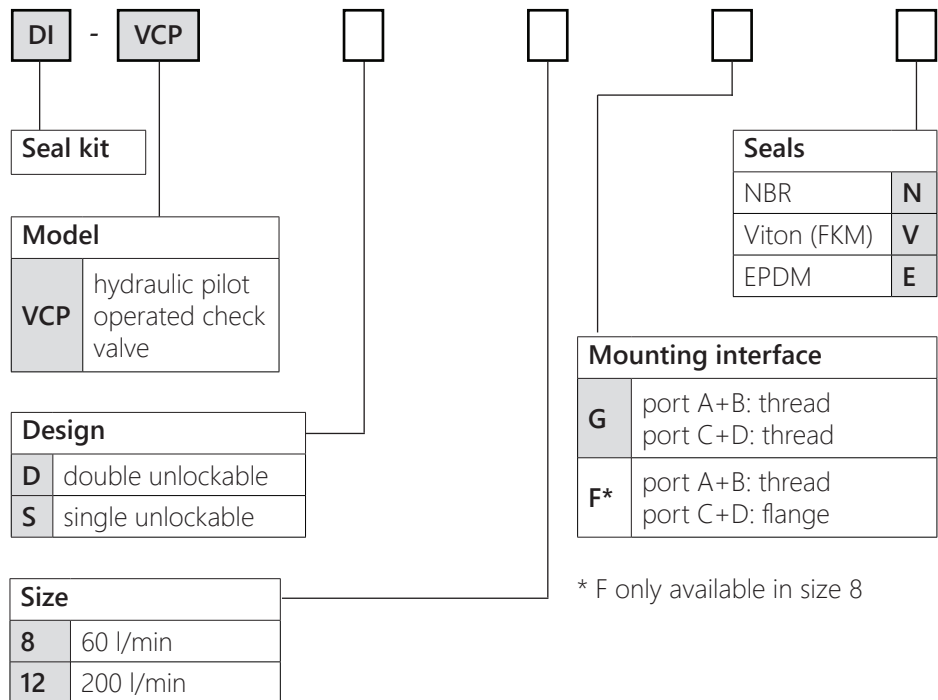
**Type code**

Type code	Short-ID-No.	Opening ratio	Ports	Seals	Flow currentless
VCPD8GGN1ABB	VCPD8-203	1: 4	G 1/2	NBR	AB
VCPD8GGN4ABB	VCPD8-218	1: 40	G 1/2	NBR	AB
VCPD8GUN1ABB	VCPD8-207	1: 4	3/4" / 16 UNF / 2B	NBR	AB
VCPD8GUN4ABB	VCPD8-240	1: 40	3/4" / 16 UNF / 2B	NBR	AB
VCPS8GGN1APB	VCPS8-204	1: 4	G 1/2	NBR	AP
VCPS8GGN4APB	VCPS8-206	1: 40	G 1/2	NBR	AP
VCPS8GUN1APB	VCPS8-205	1: 4	3/4" / 16 UNF / 2B	NBR	AP
VCPS8GUN4APB	VCPS8-301	1: 40	3/4" / 16 UNF / 2B	NBR	AP
VCPD12GGN1ABB	VCPD12-204	1: 4	G 3/4	NBR	AB
VCPD12GGN4ABB	VCPD12-206	1: 42	G 3/4	NBR	AB
VCPD12GUN1ABB	VCPD12-200	1: 4	1 1/16" / 12UNF / 2B	NBR	AB
VCPD12GUN4ABB	VCPD12-201	1: 42	1 1/16" / 12UNF / 2B	NBR	AB
VCPS12GGN1CPB	VCPS12-261	1: 4	G 3/4	NBR	CP
VCPS12GGN4CPB	VCPS12-260	1: 42	G 3/4	NBR	CP
VCPS12GUN1CPB	VCPS12-263	1: 4	1 1/16" / 12UNF / 2B	NBR	CP
VCPS12GUN4CPB	VCPS12-264	1: 42	1 1/16" / 12UNF / 2B	NBR	CP



### Accessories and additional information

Type code  
seal kit



**NOTE** Grey marking corresponds to standard version.

**NOTE** The area ratio on the cylinder must be smaller than the control ratio of the valve.

Valves with a pilot ratio of 1 : 40 are suitable for lowering loads.

Other valve types are available on request. Please contact us for further assistance.

**Manual** Information regarding installation, set-up and maintenance can be found in our product catalogue in the chapter „*general information*“ under the category „*general operating manual*“ or will be provided upon request.



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