CVD0 Valve Series

SAE/GAS Cartridge - 350 bar

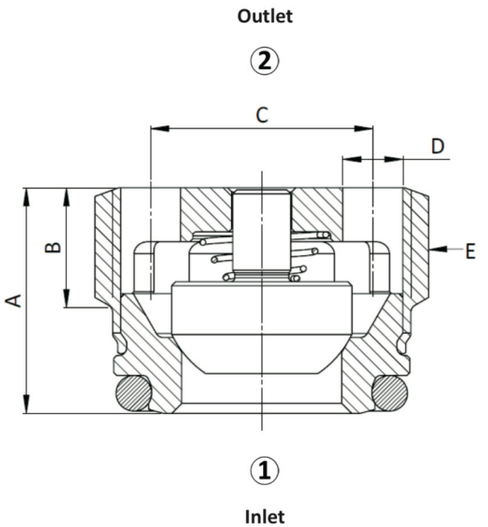
Direct acting - Poppet type

Description

A screw-in, direct acting, poppet type in-line check valve. Main use is as a blocking or load-holding device. The CVD0 allows flow passage from port 1 to 2: the cartridge has a fully guided check which is spring-biased closed until sufficient pressure is applied at port 1 to open to 2. The flow is blocked in the opposite direction (2 to 1).

Symbol

Cross Section



Technical Features

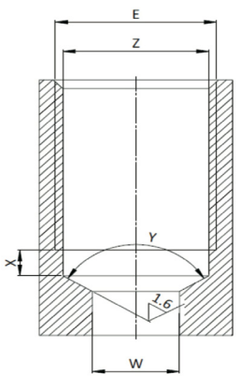
All valve parts are made of high strength steel.

Poppet and seat are hardened and ground to guarantee low wear and to extend service life.

Suitable for heavy duty applications.

Extremely compact size. SAE and Gas cavity.

Cavity Details

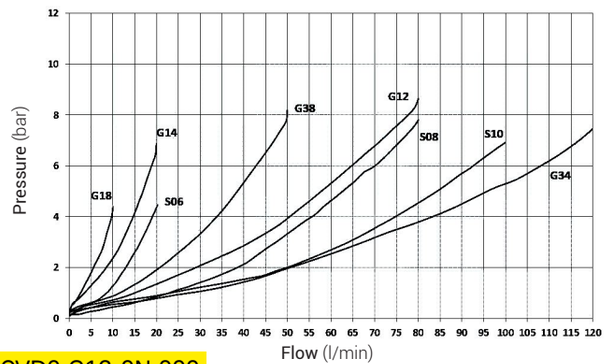


Technical Data

Maximum operating pressure	350 bar
Maximum flow	See table below
Cracking pressure	See table below
Maximum Internal Leakage	0,10 cm^3 / min @ 10 bar 0,10 cm^3 / min @ 350 bar
O-ring Temperature Range	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° C
Fluids	Mineral - based or synthetics with lubricating properties
Viscosities	7,4 to 420 cSt
Filtration	20/18/15 ISO 4406 (maximum filtration admitted)
Orientation	No restrictions
Installation torque	see tabel below
Technical Specifications for characterization	see page 480
Oil testing condition	ISO VG 46 cSt
Seal kit code	See table below
Weight	See table below

Performance Details

Note: The performance chart illustrates flow handling capacity. p/Q curves are recorded at TOil = 40°C and 46 cSt



Ordering Code

CVD0.G12-0N.000

C	V	D	0	•	*	*	*	•	0	N	•	0	0	0

Valve basic code

Size: (see the table)

Bias Spring
N = Standard (cracking pressure < 0.5)
Note = customized bias spring can be offered upon request

000 = Standard configuration

Valve Details										*Cavity Details*				
E	**A**	**B**	**C**	**D**	**MAX Flow**	**Install. Torque**	**Install. Tool**	**Seal Kit**	**Weight**	**Cavity code**	**x (max)**	**y**	**z**	**w**
[size]	[mm]	[mm]	[mm]	[mm]	[l/min]	[Nm]	[code]	[code]	[kg]	[code]	[mm]	[mm]	[mm]	[mm]
S06	10,0	6	Ø8,4	Ø2,2	20	6	IK.001	SK.091	0,008	VH169	3,0	118°	Ø12,9	Ø7
S08	12,7	6,5	Ø12	Ø3,8	80	10	IK.016	SK.108	0,016	VH106	3,0	118°	Ø17,4	Ø12
S10	12,7	6,6	Ø14	Ø4,3	100	30	IK.003	SK.107	0,023	VH166	3,0	118°	Ø20,3	Ø12
G18	7,5	3,5	Ø5,6	Ø1,6	10	6	IK.004	SK.013	0,002	VH056	3,0	118°	Ø8,7	Ø5
G14	8,5	4,4	Ø8,4	Ø2,2	20	15	IK.001	SK.016	0,005	VH007	3,0	118°	Ø11,6	Ø7
G38	11,3	6,0	Ø11,1	Ø3,0	50	30	IK.002	SK.017	0,011	VH008	3,0	118°	Ø15,1	Ø9
G12	12,7	6,5	Ø13,5	Ø3,8	80	30	IK.003	SK.018	0,019	VH009	3,0	118°	Ø18,8	Ø12
G34	14,8	7,6	Ø16,5	Ø5,0	120	50	IK.005	SK.015	0,040	VH057	3,0	118°	Ø24,3	Ø18

Specifications may change without notice.