

WPCV - Wafer Poppet Check Valve

Description

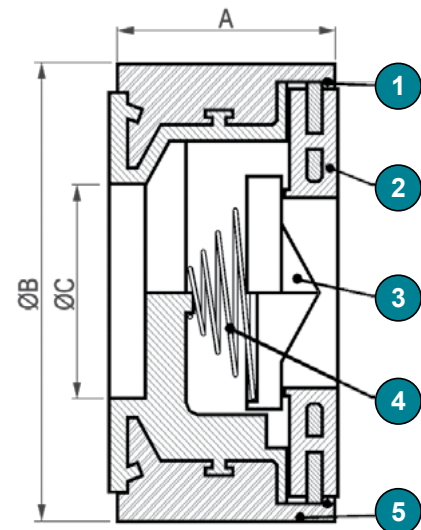
The WPCV check valve has a spring assisted poppet and a robust design, suitable for a wide range of process applications. PFA, PTFE & Hastelloy to all wetted parts ensures long, high cycle performance. The product is available for both standard DIN PN 10/16 and ANSI 150.

Product features

- Positively located spring and poppet - secure from misalignment
- Crush resistant design guards against installation abuse
- Ideal design for low pressure duties
- Full bore design provides maximum flow with minimum pressure drop
- Hastelloy C276 spring as standard - poppet lift pressure 14mbar
- Designed for easy disassembly

Material specification

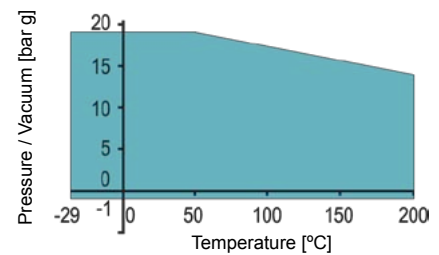
Item	Qty	Description	Materials	Specification	DIN equivalent material
1	1	Circlip	Stainless steel	BS2056 Gr 316S42	1.4401
2	1	Seat plate	Stainless steel / PFA	ASTM A240 Gr 304 / PFA	1.4301 / PFA
3	1	Poppet	PTFE	BS6564 UA1/1	-
4	1	Spring	Hastelloy C276	ASTM B574 Gr UNS N10276	2.4819
5	1	Valve body	Stainless steel / PFA	BS970 Gr.316S31 / PFA	1.4401 / PFA
			Carbon steel / PFA	BS970 Gr.230M07 / PFA	1.0715 / PFA
		Paint finish	75µ, RAL 5021	Epoxy coating	-
		PFA lining		ASTM D3307	



Dimensions

To suit pipework		Face to face	Diameter ANSI 150	Diameter DIN PN10/16	Valve bore	Weight
mm	Inches	A	B	B	C	kg
15	½	30	45	51	16	0.2
25	1	35	63	73	25	0.5
40	1½	45	82	92	36	1.1
50	2	56	101	107	50	1.7
80	3	71	133	142	66	3.5
100	4	80	171	162	88	5.3

Pressure / Temperature Diagram



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Options

Component	Description
Body	Stainless steel (for 4" / DN100)
Spring	Alternative pressure ratings
	PTFE encapsulated
	Alternative spring materials
	Spring removed (floating poppet)



Type code

WPCV	080	.	3	3	.	4KT	.	T	.	S
1	2	3	4	5	6	7				

1	Type	WPCV	Wafer Poppet Check Valve	
2	Nominal diameter	015 - 100	mm	
3	Working pressure	3	16 bar	
4	Rating	3	PN10/16	
		A	ASTM Class 150	
			others on request	
5	Body	3OT	Carbon steel / PFA	Standard for DN100 (4")
		4KT	Stainless steel / PFA	Standard for DN15-80 (1/2" - 3") Option for DN100 (4")
6	Poppet	T	PTFE	
7	Spring		without spring (floating poppet)	
		S	Hastelloy C276	

InterApp AG
Grundstrasse 24
CH-6343 Rotkreuz
Phone +41 (0) 41 798 22 33
Fax +41 (0) 41 798 22 34
info@ch.interapp.net

InterApp Germany
Hochsträss 3
D-78727 Oberndorf am Neckar
Phone +49 (0) 771 896 689 30
Fax +49 (0) 771 896 689 35
info@de.interapp.net

InterApp Austria
Kolpingstrasse 19
A-1230 Wien
Phone +43 (0) 1 616 2371-0
Fax +43 (0) 1 616 2371-99
info@at.interapp.net

InterApp Italy
Via Gramsci 29
I-20016 Pero (MI)
Phone +39 02 33 93 71
Fax +39 02 33 93 7200
info@it.interapp.net

InterApp Spain
Juan Ramón Jiménez, 16
E-28860 Paracuellos de Jarama
Phone +34 (0) 91 658 48 83
Fax +34 (0) 91 658 14 30
info@es.interapp.net

InterApp France
La Picoterie
F-14400 Arganchy
Phone +33 (0) 67 436 61 34
Fax +33 (0) 23 121 18 95
info@fr.interapp.net

InterApp Hungary
Bécsi út 100
H-1034 Budapest
Phone +36 (1) 436 97 02
Fax +36 (1) 436 97 00
info@hu.interapp.net

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