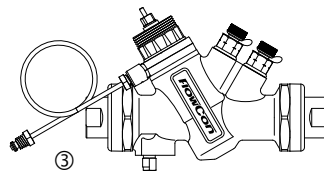
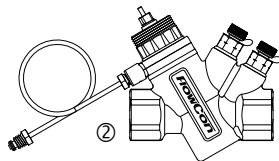
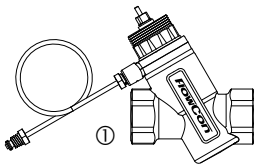


Installation and Operation Instruction

The **FlowCon ADP** inserts are for use with three different FlowCon valve housings, either:

- ① FlowCon A DN15/20/25 (1/2"-1")
- ② FlowCon AB DN15/20/25 (1/2"-1")
- ③ FlowCon ABV DN15/20/25 (1/2"-1")



Insert Setting and Installation

Prior to installing the FlowCon ADP insert (supplied from factory in setting 5.0 due to calibration), the system should be properly flushed. Blank valve covers are available to be installed during flushing.

It is recommended to grease the O-rings located around the insert and headnut with silicone grease before installing the insert in the valve housing. After installation and if the side tap on the connector-ring is in the way, the connection-ring may be independently turned clockwise for a more optimal position. Setting is better carried out after the insert is installed in the valve housing.

The desired flow / Δp Circuit is set by adjusting the insert (turned from setting 1.0 and up) with a special adjustment key (i.e. table on page 2). Scale setting is located at the top of the insert where the large digits, numbered 1 to 5, indicate full turns and the digits on the red counter-wheel, numbered 0 to 9, indicate 1/10 of full turn. Δp Circuit can be measured between Partner Valve (p/t plug) and ADP (first p/t plug). Please wait until the ADP has stabilized itself.

Once Flow / Δp Circuit is set, the required actuator may be applied. Please see specific installation instruction for selected actuator.

Capillary tube

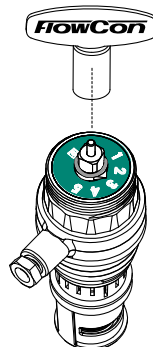
Capillary tube incl. fittings is as standard supplied with adaptor for connection to 1/4" tap in Partner Valve. Do not damage the capillary tube by compressing or bending the tube with a bending radius below 20mm (3/4"). Capillary tube is to be finger mounted – **DO NOT OVER TIGHTEN.**

FlowCon ADP 15-25 mm (1/2"-1")

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ΔpC (kPa)	Flow (l/hr)															
	FlowCon ADP.0 settings (grey o-ring)															
	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.5	4.0	4.5	5.0	
3	84	120	170	230	280	330	370	400	420	450	470	550	610	630	680	
4	79	110	160	210	260	310	340	370	390	420	440	510	570	590	630	
5	73	100	150	190	240	290	320	340	360	380	410	470	520	540	590	
6	67	96	130	180	220	260	290	320	330	350	380	440	480	500	540	
7	61	88	120	160	200	240	270	290	310	320	340	400	440	460	490	
8	55	79	110	150	190	220	240	260	280	290	310	360	400	410	450	
9	50	71	99	130	170	190	220	230	250	260	280	320	360	370	400	
10	44	63	88	120	150	170	190	210	220	230	250	280	320	330	350	
11	38	54	76	100	130	150	170	180	190	200	210	250	270	280	310	
12	32	46	64	86	110	130	140	150	160	170	180	210	230	240	260	
13	26	38	53	70	88	100	120	120	130	140	150	170	190	200	210	
14	21	30	41	55	69	81	90	97	100	110	120	130	150	150	170	
15	15	21	30	39	49	58	65	70	74	78	83	96	110	110	120	
16	12	17	24	32	40	47	52	56	59	63	66	77	86	88	96	
17	9	13	18	24	30	35	39	42	45	47	50	58	65	67	72	

A micrometer setting of 3.0 corresponds to a ΔpCircuit of 7 kPaD (1.02 psid) and a design flow of 340 l/hr (1.50 GPM).



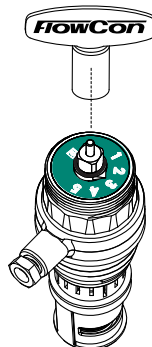
FlowCon ADP.0
DN15-25 / 1/2"-1"

FlowCon ADP 15-25 mm (1/2"-1")

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ΔpC (kPa)	Flow (l/hr)														
	FlowCon ADP.1 settings (black o-ring)														
	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.5	4.0	4.5	5.0
3	210	300	400	510	610	680	720	750	790	830	880	1000	1000	1100	1100
4	210	290	390	500	590	660	700	730	770	810	860	990	1000	1000	1000
5	200	280	380	480	570	640	680	710	740	780	830	960	990	990	1000
6	190	270	370	470	560	620	660	690	720	760	810	930	960	960	970
7	190	260	360	460	540	600	640	670	700	740	780	900	930	930	940
8	180	260	350	440	520	580	620	650	680	710	760	880	900	910	910
9	180	250	340	430	510	560	600	630	660	690	730	850	870	880	880
10	170	240	330	410	490	550	580	610	640	670	710	820	840	850	850
11	170	230	310	400	470	530	560	590	610	650	690	790	810	820	830
12	160	220	300	390	460	510	540	570	590	620	660	760	780	790	800
13	150	220	290	370	440	490	520	550	570	600	640	740	760	760	770
14	150	210	280	360	420	470	500	530	550	580	610	710	730	730	740
15	140	200	270	340	410	450	480	510	530	560	590	680	700	700	710
16	140	190	260	330	390	430	460	480	510	530	570	650	670	680	680
17	130	180	250	320	370	420	440	460	480	510	540	620	640	650	650
18	120	180	240	300	360	400	420	440	460	490	520	600	610	620	620
19	120	170	230	290	340	380	400	420	440	460	490	570	580	590	590
20	110	160	210	270	320	360	380	400	420	440	470	540	560	560	560
21	110	150	200	260	310	340	360	380	400	420	440	510	530	530	530
22	100	140	190	240	290	320	340	360	380	400	420	490	500	500	510
23	95	130	180	230	270	300	320	340	350	370	400	460	470	470	480
24	90	130	170	220	260	290	300	320	330	350	370	430	440	440	450
25	84	120	160	200	240	270	290	300	310	330	350	400	410	420	420
26	78	110	150	190	220	250	270	280	290	300	320	370	380	390	390
27	72	100	140	170	210	230	250	260	270	280	300	350	360	360	360
28	66	93	130	160	190	210	230	240	250	260	280	320	330	330	330
29	61	85	120	150	170	190	210	220	230	240	250	290	300	300	300
30	55	77	100	130	160	170	190	190	200	210	230	260	270	270	270
31	49	69	93	120	140	160	170	170	180	190	200	230	240	240	240
32	43	61	82	100	120	140	150	150	160	170	180	210	210	210	210
33	37	52	71	90	110	120	130	130	140	150	150	180	180	180	190
34	32	44	60	76	90	100	110	110	120	120	130	150	150	160	160
35	26	36	49	62	73	81	87	91	95	100	110	120	130	130	130

A micrometer setting of 3.0 corresponds to a ΔpCircuit of 7 kPaD (1.02 psid) and a design flow of 780 l/hr (3.43 GPM).



FlowCon ADP.1
DN15-25 / 1/2"-1"

FlowCon ADP 15-25 mm (1/2"-1")

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Assembly drawing FlowCon ADP

A: Valve housing

B: APD insert

C: Adjustment key

D1: P/t plug (2 pcs.)

D2: Plug (2 pcs.)

E: Union end connctions

F: Capillary tube incl. M8 fittings
and M8 to 1/4" adaptor (for Partner Ball)

G: FlowCon actuator incl. adaptor ring

H: Protection cap

