

## Installation and Operation Instruction

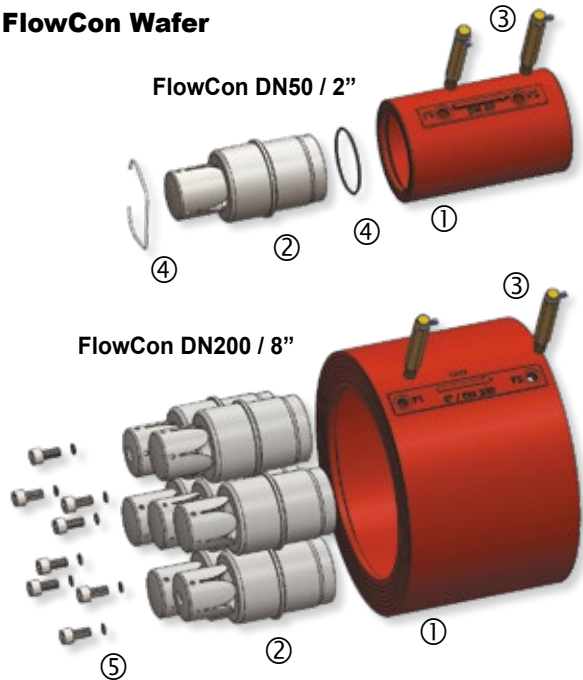
The **FlowCon Wafer** valve is for double flanged connections and covers:

- FlowCon Wafer DN50-80 (2"-3")
  - installed with 1 pc. 3" stainless steel insert
- FlowCon Wafer DN100-1000 (4"-40")
  - installed with multiple 3" stainless steel inserts

Gaskets and counter flanges are not supplied by FlowCon. Studs and nuts may be available upon request.

### General Assembly Drawing FlowCon Wafer

- 1) Valve housing
- 2) 3" stainless steel insert(s)
- 3) Extended p/t plugs (2 pcs.)
- 4) Retainer clip and O-ring (for housing size DN50-80)
- 5) Screws and washers (quantity depend on housing size DN100+)



### Insert Selection and Installation

**Single insert housings** may include either a **standard flow** or a **high capacity 3"** stainless steel insert. It is recommended to lubricate the O-ring located around the insert. Check the placement of the O-ring and finger place the insert in the valve housing - there is no need to use tools. Once installed, the retainer clip is fitted to hold the insert in proper place.

**Larger housings** with multiple inserts may include **standard flow, high capacity of high flow 3"** stainless steel inserts. The total flow rate is achieved by adding the flow rate of each insert in the same housing. Here no O-ring or retainer clip is required. Inserts are fitted in the housing and hold in place by a number of screws and washers depending on valve size.

# FlowCon Wafer 50-1000 mm (2"-40")

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A Griswold Controls LLC/FlowCon International Company

Accuracy: ±5% of controlled flow rate.

80 mm · 3" · stainless steel insert, standard flow							
			Pressure range, ΔP:				
			10-135 kPaD 1-20 psid	22-210 kPaD 2-32 psid	40-390 kPaD 4-57 psid	90-880 kPaD 8-128 psid	
			Type 1	Type 2	Type 4	Type 8	
Size (mm)	Size (")	Max no. of inserts	min. available l/sec	1.083	1.10	1.47	2.21
			l/sec increments	0.127	0.16	0.21	0.31
50	2	1		3.79	4.73	6.31	9.46
65	2 1/2	1		3.79	4.73	6.31	9.46
80	3	1		3.79	4.73	6.31	9.46
100	4	2		7.58	9.46	12.6	18.9
150	6	4		15.2	18.9	25.2	37.8
200	8	7		26.5	33.1	44.2	66.2
250	10	11		41.7	52.0	69.4	104
300	12	15		56.9	71.0	94.7	142
350	14	19		72.0	89.9	120	180
400	16	24		91.0	114	151	227
450	18	31		117	147	196	293
500	20	37		140	175	233	350
600	24	55		208	260	347	520
800	30	85		322	402	536	804
900	36	97		368	459	612	918
1000	40	121		459	572	764	1144

Accuracy: ±5% of controlled flow rate.

80 mm · 3" · stainless steel insert, high capacity						
			Pressure range, ΔP:			
			28-135 kPaD 4-20 psid		55-210 kPaD 8-32 psid	
			Type 1	Type 2		
Size (mm)	Size (")	Max no. of inserts	min. available l/sec	5.68	6.94	
			l/sec increments	1.26	1.58	
50	2	1		8.20	10.1	
65	2 1/2	1		8.20	10.1	
80	3	1		8.20	10.1	
100	4	2		16.4	20.2	
150	6	4		32.8	40.4	
200	8	7		57.4	70.7	
250	10	11		90.2	111	
300	12	15		123	152	
350	14	19		156	192	
400	16	24		197	242	
450	18	31		254	313	
500	20	37		303	374	
600	24	55		451	556	
800	30	85		697	859	
900	36	97		795	980	
1000	40	121		992	1222	

Accuracy: ±5% of controlled flow rate.

80 mm · 3" · stainless steel insert, high flow						
			Pressure range, ΔP:			
			20-125 kPaD 3-18 psid	35-220 kPaD 5-32 psid	55-220 kPaD 8-32 psid	
			Type 3	Type 5	Type 6	
Size (mm)	Size (")	Max no. of inserts	min. available l/sec	6.31	8.52	18.9
			l/sec increments	n/a	n/a <sup>1</sup>	n/a
150	6	4		18.9	37.8	56.7
200	8	7		37.9	75.6	113
250	10	11		69.4	139	208
300	12	15		94.7	189	284
350	14	19		120	239	359
400	16	24		151	302	454
450	18	31		196	391	586
500	20	37		233	466	699
600	24	55		347	693	1040
800	30	85		536	1071	1607
900	36	97		612	1222	1833
1000	40	121		764	1525	2287

Note 1: For flow rates in between min. and max. please contact FlowCon.

FlowCon International assumes no responsibility for mistakes, if any, in any printed material.