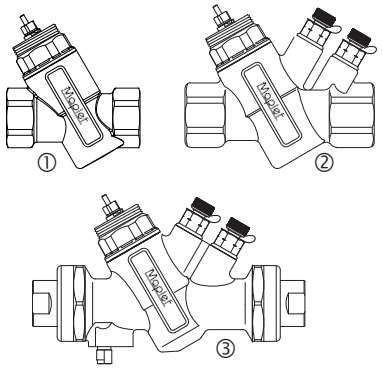
Installation and Operation Instruction

The **Maplef Green** inserts are for use with three different Maplef valve housings, either:

① Maplef A DN15-25 (1/2”-1”)
② Maplef AB DN15-32 (1/2”-1 1/4”)
③ Maplef ABV DN15-40 (1/2”-1 1/2”)



Insert Setting and Installation

Prior to installing the Maplef Green insert (sup - plied 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.

The desired flow rate is set by adjusting the insert (turned from setting 1.0 and up) with a special adjustment key (i.e. figure 2 page 2). Scale setting is located on top of the insert where the large white digits, numbered 1 to 5, indicate full turns and red digits, numbered 0 to 9, indicate 1/10 of full turn. Flow setting may be done either before or after the insert is installed in the valve housing. Once flow is set and insert is fitted in the valve housing, the required actuator may be applied. Please see specific installation instruction for selected actuator.

General Assembly Drawing Maplef Green

A: Valve housing
B: Green insert
C: Adjustment keys
D1: P/t plug (2 pcs.)
D2: Plug (2 pcs.)
E: Union end connections
F: Maplef actuator

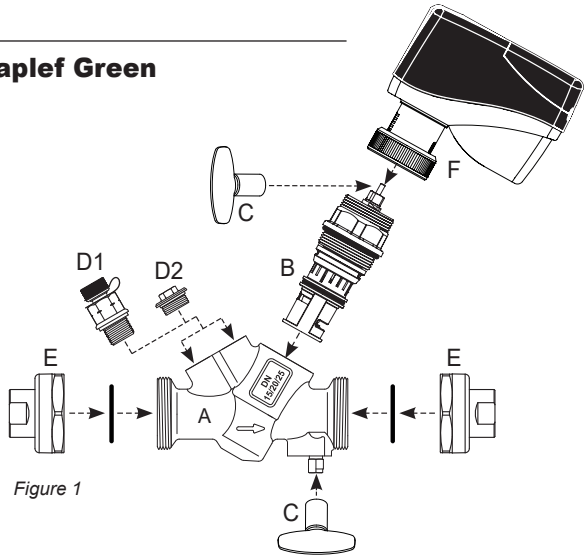


Figure 1

Maplef Green										Setting
Insert size: 20 mm · 3/4”						Insert size: 40 mm · 1 1/2”				
Nominal flow rate	16-200 kPaD · 2.3-29 psid			30-800 kPaD · 4.4-116 psid[1]			16-800 kPaD* · 2.3-116 psid[2]			
	Green.0 (grey O-ring)			Green.1 (black O-ring)			Green.2 (black O-ring)			
	l/sec	l/hr	GPM	l/sec	l/hr	GPM	l/sec	l/hr	GPM	
	-	-	-	0.0178	64	0.282	0.240	865	3.81	1.0
	0.0103	37	0.163	0.0393	142	0.624	0.282	1010	4.46	1.1
	0.0233	84	0.370	0.0580	209	0.920	0.322	1160	5.10	1.2
	0.0322	116	0.510	0.0743	268	1.180	0.361	1300	5.72	1.3
	0.0419	151	0.664	0.0887	319	1.41	0.399	1430	6.32	1.4
	0.0500	180	0.792	0.102	366	1.61	0.435	1570	6.90	1.5
	0.0569	205	0.902	0.113	408	1.80	0.471	1700	7.47	1.6
	0.0650	234	1.03	0.124	446	1.96	0.506	1820	8.02	1.7
	0.0719	259	1.14	0.134	482	2.12	0.540	1940	8.56	1.8
	0.0781	281	1.24	0.143	516	2.27	0.573	2060	9.08	1.9
	0.0839	302	1.33	0.152	549	2.42	0.605	2180	9.59	2.0
	0.0889	320	1.41	0.161	580	2.56	0.636	2290	10.1	2.1
	0.0942	339	1.49	0.170	611	2.69	0.667	2400	10.6	2.2
	0.0981	353	1.55	0.178	641	2.82	0.696	2510	11.0	2.3
	0.103	371	1.63	0.186	671	2.95	0.725	2610	11.5	2.4
	0.106	381	1.68	0.194	700	3.08	0.753	2710	11.9	2.5
	0.109	394	1.73	0.202	728	3.21	0.780	2810	12.4	2.6
	0.113	406	1.79	0.210	756	3.33	0.807	2900	12.8	2.7
	0.115	414	1.82	0.218	783	3.45	0.832	3000	13.2	2.8
	0.119	428	1.88	0.225	810	3.56	0.858	3090	13.6	2.9
	0.122	439	1.93	0.232	835	3.68	0.882	3180	14.0	3.0
	0.125	449	1.98	0.239	860	3.79	0.906	3260	14.4	3.1
	0.127	458	2.02	0.245	883	3.89	0.930	3350	14.7	3.2
	0.130	468	2.06	0.252	906	3.99	0.953	3430	15.1	3.3
	0.133	477	2.10	0.257	927	4.08	0.975	3510	15.5	3.4
	0.135	486	2.14	0.263	946	4.17	0.997	3590	15.8	3.5
	0.137	494	2.17	0.268	965	4.25	1.02	3670	16.1	3.6
	0.140	503	2.21	0.273	982	4.32	1.04	3740	16.5	3.7
	0.142	511	2.25	0.277	998	4.39	1.06	3820	16.8	3.8
	0.144	518	2.28	0.281	1010	4.46	1.08	3890	17.1	3.9
	0.146	526	2.31	0.285	1020	4.51	1.10	3960	17.4	4.0
	0.148	532	2.34	0.288	1040	4.57	1.12	4030	17.7	4.1
	0.149	538	2.37	0.291	1050	4.61	1.14	4100	18.1	4.2
	0.151	544	2.39	0.294	1060	4.66	1.16	4170	18.4	4.3
	0.153	549	2.42	0.296	1070	4.70	1.18	4240	18.7	4.4
	0.154	553	2.43	0.299	1080	4.73	1.20	4300	19.0	4.5
	0.155	559	2.46	0.301	1080	4.77	1.21	4370	19.2	4.6
	0.156	563	2.48	0.303	1090	4.80	1.23	4440	19.5	4.7
	0.158	567	2.50	0.305	1100	4.83	1.25	4500	19.8	4.8
	0.159	571	2.51	0.307	1100	4.86	1.27	4570	20.1	4.9
	0.160	575	2.53	0.308	1110	4.89	1.29	4630	20.4	5.0

Accuracy: Greatest of either ±10% of controlled flow rate or ±5% of maximum flow rate.
Note 1: If used in pressure range 400-800 kPaD (58-116 psid), accuracy of -20% / +0% applies.
Note 2: At setting 2.6.

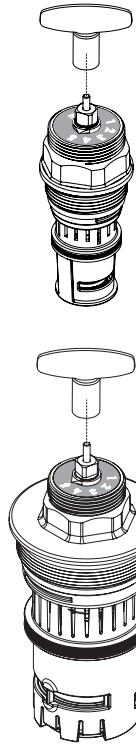


Figure 2