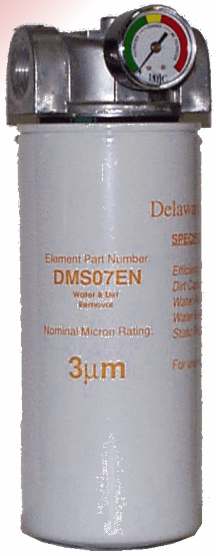
'DS1' Compact Spin-On

Compact OEM Design for flows to 35 GPM; Optional Water Removal; 3/10/25 µm Degrees; SAE or BSP



The **'DS1'** series is comprised of frequently ordered combinations of Φ3¾" **'DMS'** Spin-On Elements and small SAE/BSP Filter heads. Choosing a DMIC filter Assembly ensures that the head, element, gasket, bypass valve, and indicator are engineered to work in unison

- **3 / 6 / 12 / 25** µm Nominal models backed by **published beta ratio**
- Designed for 150 PSI maximum operating pressure, rated 300 PSI static
- Available with U.S. standard **SAE-Post, or BSP-Post** for system exporters
- Multipass tested according to ISO 4572 for credible, repeatable specs.

Ordering Codes

DS1 | 1 | A | F | Z | N | N

Element Type	
Code	Description
DS1	Compact

Element Length	
Code	Port Size(in)
0	SAE Post, Std Length
1	BSP Post, Std Length
2	BSP Post, Long Can
3	SAE Post, Long Can

Micron Rating	
Code	Description
A	10µm Nominal, Resinated Micropaper
B	25µm Nominal, Resinated Micropaper
C	3µm Nominal, Resinated Micropaper

Inlet Ports	
Code	Description
F	¾" NPTF
Optional (may incur lead time)	
D	½" NPTF
E	#08 SAE (¾"-16)
H	#12 SAE (1 1/16"-12)
J	1" NPTF

Bypass Valve setting	
Code	Description
Z	25 PSI. Optimum Return Line setting
Optional	
X	2½ PSI, Suction line
Y	15 PSI, Not recommended
W	50 PSI, High ΔP

Indicator Position	
Code	Description
N	No indicator, only if previous code is "N"
R	Return line (before element)
S	Suction Line (after element)

Clogging Indicator	
Code	Description
N	No indicator, not recommended
G	Gauge Indicator (Green, Yellow, Red)
B	Pop-Up Indicator (22.5 PSI)
E	Electric Pressure Switch (22.5 PSI)

Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.

'DS1' Compact Spin-On

Dimensional Table

Element Data			Head Data		Dimensions (inches)					Performance Data			Filter Assembly Part #
'DS10' Regular Length, To 16 GPM, SAE Post, ¾" NPT Inlets													
Can Length	**Post Thread**	**Element Part #**	**Standard Head Part #**	**Standard Bypass PSI**	**A**	**B**	**C**	**D**	**Lbs.**	**Beta Ratio**	**Nominal Micron Rating**	**Typical Flow GPM[1]**	
5¾" Regular Length	SAE 1"-12"	DMS04CN	DH1A-FZIN	25 PSI	3.75	7.33	3.73	0.75	1.60	$\beta_{10} = 15$	3.0µm	8	DS10-CFZNN
		DMS04AN								$\beta_{10} = 1.5$	10µm	11	DS10-AFZNN
		DMS04BN								$\beta_{30} = 4$	25µm	13	DS10-BFZNN
'DS11' Regular Length, To 16 GPM, BSP Post, ¾" NPT Inlets													
5¾" Regular Length	BSP ¾"	DMS05CN	DH1B-FZIN	25 PSI	3.75	7.33	3.73	0.75	1.60	$\beta_{10} = 15$	3.0µm	8	DS11-CFZNN
		DMS05AN								$\beta_{10} = 1.5$	10µm	11	DS11-AFZNN
		DMS05BN								$\beta_{30} = 4$	25µm	13	DS11-BFZNN
'DS12' Long Can, To 16 GPM, BSP Post, ¾" NPT Inlets													
8" High Flow	BSP ¾"	DMS06CN	DH1B-FZIN	25 PSI	3.75	9.65	3.73	0.75	2.00	$\beta_{10} = 15$	3.0µm	11	DS12-CFZNN
		DMS06AN								$\beta_{10} = 1.5$	10µm	12	DS12-AFZNN
		DMS06BN								$\beta_{30} = 4$	25µm	14	DS12-BFZNN
'DS13' Long Can, To 16 GPM, SAE Post, ¾" NPT Inlets													
8" High Flow	SAE 1"-12"	DMS07CN	DH1A-FZIN	25 PSI	3.75	9.65	3.73	0.75	2.00	$\beta_{10} = 15$	3.0µm	11	DS13-CFZNN
		DMS07AN								$\beta_{10} = 1.5$	10µm	12	DS13-AFZNN
		DMS07BN								$\beta_{30} = 4$	25µm	14	DS13-BFZNN
		DMS07DN								$\beta H_2O = 10$	3.0µm[2]	7	DS13-DFZNN
		DMS07EN								$\beta H_2O = 10$	10µm[2]	9	DS13-EFZNN

(1) Typical flows quoted in U.S. GPM with a new element, using 150 SUS Petroleum Based Fluid at 100°F

(2) Water removal models impose a huge pressure drop when clogged

(3) Absolute series uses gradient microglass media to produce higher flow at a given pressure drop than cellulose. These filter models in the DS1 small can series are offered in OEM quantities only at this time.