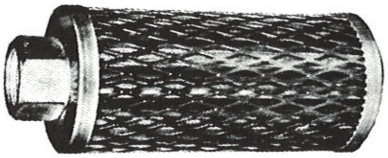
TAKE-APART SUMP TYPE — *UP TO 100 GPM — 3/4" THRU 3" PIPE SIZES*

Use with "Marvindicator" Element Condition Indicator (See pages 24 & 25)



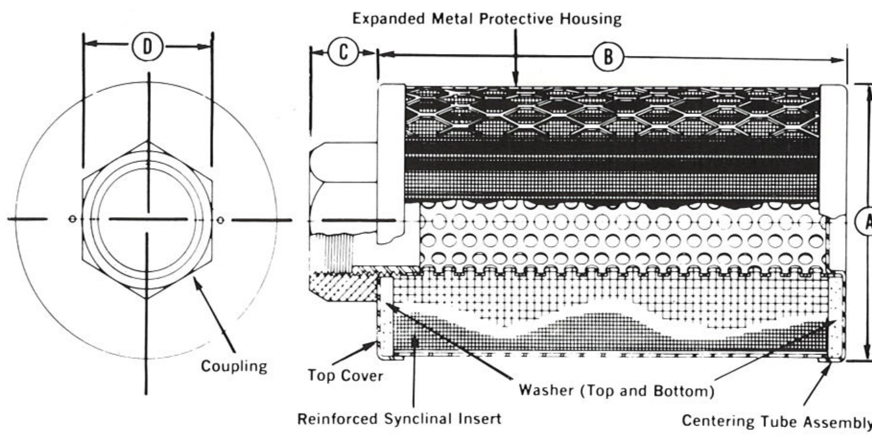
CAPACITIES:
5—8—10—20—30—50—75 and 100 G.P.M.

PIPE SIZES:
3/4"—1"—1¼"—1½"—2"—2½" and 3".

CONNECTIONS:
Coupling—Male Nipple.

BY-PASS VALVE:
Not available.

OPERATING TEMPERATURES:
Up to 150° F. Also available on special order for higher temperatures.
For use with regular petroleum base Hydraulic Oils, Coolants, Lubricants, all types of Fire-resistant Hydraulic Fluids and Water.



EASY MAINTENANCE
These Sump Type Filters may be disassembled, thoroughly cleaned and reassembled in a matter of minutes. Require no replacement or "throw-away" parts to purchase or carry in stock. See bottom of page No. 15 for cleaning instructions.

ENGINEERING DATA—MOUNTING DIMENSIONS—PART NUMBERS

SIZE	5 GPM	8 GPM	10 GPM	20 GPM	30 GPM	50 GPM	50 GPM	75 GPM	100 GPM
PORT	3/4 NPTF	3/4 NPTF	1" NPTF	1¼ NPTF	1½ NPTF	1½ NPTF	2" NPTF	2½ NPTF	3" NPTF
	*PRESSURE DROP PSI								
St'd.	.20	.35	.26	.20	.27	.63	.26	.27	.24
S only	.25	.63	.38	.41	.45	1.10	.39	.47	.35
N only	.23	.43	.31	.23	.32	.79	.30	.32	.27
W only	.10	.18	.15	.13	.21	.50	.19	.19	.15
	APPROX. WT. LBS.								
St'd.-S-N	1	1½	1½	2½	3	3	4	4½	5½
W only	1¼	1½	2	3	4	4	5	6¾	8¾
	DIMENSIONS INCHES								
A	2.75	2.75	3.25	4.06	4.75	4.75	5.25	6.00	6.50
B	4.50	6.50	6.62	8.62	8.62	8.62	9.62	10.62	11.62
C	1.00	1.00	1.12	1.25	1.25	1.25	1.50	2.00	2.00
D	1.44	1.44	1.75	2.12	2.38	2.38	3.00	3.25	4.00
	COUPLING PART NUMBERS								
St'd.-S-N	P001	P001	P002	P003	P004	P004	P005	P006	P007
W only	P008	P008	P009	P010	P011	P011	P012	P013	P014
	TOP COVER PART NUMBERS								
St'd.	P015	P016	P017	P018	P019	P020	P021	P022	P023
S only	P024	P025	P026	P027	P028	P029	P030	P031	P032
N only	P033	P034	P035	P036	P037	P038	P039	P040	P041
W only	P042	P043	P044	P045	P046	P047	P048	P049	P050
	# REINFORCED SYNCLINAL INSERT PART NUMBERS								
St'd. & S	P051-100	P052-100	P053-100	P054-100	P055-100	P056-100	P057-100	P058-100	P059-100
N only	P060-60	P061-60	P062-60	P063-60	P064-60	P065-60	P066-60	P067-60	P068-60
W only	P069-100	P070-100	P071-100	P072-100	P073-100	P074-100	P075-100	P076-100	P077-100
	CENTERING TUBE ASSEMBLY PART NUMBERS								
St'd.-S-N	P078	P079	P080	P081	P082	P082	P083	P084	P085
W only	P086	P087	P088	P089	P090	P090	P091	P092	P093
	EXPANDED METAL PROTECTIVE HOUSING PART NUMBERS								
St'd.-S-N	P094	P095	P096	P097	P098	P098	P099	P100	P101
W only	P102	P103	P104	P105	P106	P106	P107	P108	P109
	WASHER (TOP AND BOTTOM) PART NUMBERS								
St'd.-N-W	P111	P111	P112	‡P113	P114	P114	P115	P116	P117
S only	P118	P118	P119	P121	P122	P122	P123	P124	P125

*St'd.—HYDRAULIC OILS—COOLANTS—LUBRICANTS—225 SSU @ 100° F
S—PHOSPHATE ESTER BASE FIRE RESISTANT FLUIDS—225 SSU @ 100° F
N—AQUEOUS BASE (WATER GLYCOL) FIRE RESISTANT FLUIDS—225 SSU @ 100° F
W—WATER—60° F ‡PART NUMBER FOR "W" FILTERS IS P307
#PART NUMBERS FOR STANDARD MESH—CHANGE SUFFIX TO CORRESPOND FOR OTHER MESH SIZES

MARVEL MODEL NUMBERS — TAKE-APART SUMP TYPE FILTERS SHOWN ON PAGE 12

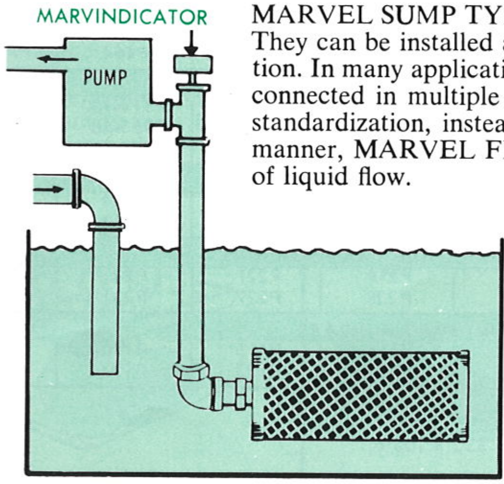
MESH	5 GPM 3/4 NPTF	8 GPM 3/4 NPTF	10 GPM 1" NPTF	20 GPM 1¼ NPTF	30 GPM 1½ NPTF	50 GPM 1½ NPTF	50 GPM 2" NPTF	75 GPM 2½ NPTF	100 GPM 3 NPTF
	MODEL NUMBERS HYDRAULIC OILS — COOLANTS — LUBRICANTS								
100*	E-3/4-5-100	D-3/4-8-100	C-1-10-100	B-1¼-20-100	A-1½-30-100	A-1½-50-100	A-2-50-100	A-2½-75-100	A-3-100-100
80	E-3/4-5-80	D-3/4-8-80	C-1-10-80	B-1¼-20-80	A-1½-30-80	A-1½-50-80	A-2-50-80	A-2½-75-80	A-3-100-80
60	E-3/4-5-60	D-3/4-8-60	C-1-10-60	B-1¼-20-60	A-1½-30-60	A-1½-50-60	A-2-50-60	A-2½-75-60	A-3-100-60
50	E-3/4-5-50	D-3/4-8-50	C-1-10-50	B-1¼-20-50	A-1½-30-50	A-1½-50-50	A-2-50-50	A-2½-75-50	A-3-100-50
40	E-3/4-5-40	D-3/4-8-40	C-1-10-40	B-1¼-20-40	A-1½-30-40	A-1½-50-40	A-2-50-40	A-2½-75-40	A-3-100-40
30	E-3/4-5-30	D-3/4-8-30	C-1-10-30	B-1¼-20-30	A-1½-30-30	A-1½-50-30	A-2-50-30	A-2½-75-30	A-3-100-30
	"S" SERIES — PHOSPHATE ESTER BASE FIRE RESISTANT FLUID								
100*	E-3/4-5S-100	D-3/4-8S-100	C-1-10S-100	B-1¼-20S-100	A-1½-30S-100	A-1½-50S-100	A-2-50S-100	A-2½-75S-100	A-3-100S-100
80	E-3/4-5S-80	D-3/4-8S-80	C-1-10S-80	B-1¼-20S-80	A-1½-30S-80	A-1½-50S-80	A-2-50S-80	A-2½-75S-80	A-3-100S-80
60	E-3/4-5S-60	D-3/4-8S-60	C-1-10S-60	B-1¼-20S-60	A-1½-30S-60	A-1½-50S-60	A-2-50S-60	A-2½-75S-60	A-3-100S-60
50	E-3/4-5S-50	D-3/4-8S-50	C-1-10S-50	B-1¼-20S-50	A-1½-30S-50	A-1½-50S-50	A-2-50S-50	A-2½-75S-50	A-3-100S-50
40	E-3/4-5S-40	D-3/4-8S-40	C-1-10S-40	B-1¼-20S-40	A-1½-30S-40	A-1½-50S-40	A-2-50S-40	A-2½-75S-40	A-3-100S-40
30	E-3/4-5S-30	D-3/4-8S-30	C-1-10S-30	B-1¼-20S-30	A-1½-30S-30	A-1½-50S-30	A-2-50S-30	A-2½-75S-30	A-3-100S-30
	"N" SERIES — WATER GLYCOL FIRE RESISTANT FLUID								
60	E-3/4-5N-60	D-3/4-8N-60	C-1-10N-60	B-1¼-20N-60	A-1½-30N-60	A-1½-50N-60	A-2-50N-60	A-2½-75N-60	A-3-100N-60
50	E-3/4-5N-50	D-3/4-8N-50	C-1-10N-50	B-1¼-20N-50	A-1½-30N-50	A-1½-50N-50	A-2-50N-50	A-2½-75N-50	A-3-100N-50
40	E-3/4-5N-40	D-3/4-8N-40	C-1-10N-40	B-1¼-20N-40	A-1½-30N-40	A-1½-50N-40	A-2-50N-40	A-2½-75N-40	A-3-100N-40
30	E-3/4-5N-30	D-3/4-8N-30	C-1-10N-30	B-1¼-20N-30	A-1½-30N-30	A-1½-50N-30	A-2-50N-30	A-2½-75N-30	A-3-100N-30
	"W" SERIES — WATER								
100*	E-3/4-5W-100	D-3/4-8W-100	C-1-10W-100	B-1¼-20W-100	A-1½-30W-100	A-1½-50W-100	A-2-50W-100	A-2½-75W-100	A-3-100W-100
80	E-3/4-5W-80	D-3/4-8W-80	C-1-10W-80	B-1¼-20W-80	A-1½-30W-80	A-1½-50W-80	A-2-50W-80	A-2½-75W-80	A-3-100W-80
60	E-3/4-5W-60	D-3/4-8W-60	C-1-10W-60	B-1¼-20W-60	A-1½-30W-60	A-1½-50W-60	A-2-50W-60	A-2½-75W-60	A-3-100W-60
50	E-3/4-5W-50	D-3/4-8W-50	C-1-10W-50	B-1¼-20W-50	A-1½-30W-50	A-1½-50W-50	A-2-50W-50	A-2½-75W-50	A-3-100W-50
40	E-3/4-5W-40	D-3/4-8W-40	C-1-10W-40	B-1¼-20W-40	A-1½-30W-40	A-1½-50W-40	A-2-50W-40	A-2½-75W-40	A-3-100W-40
30	E-3/4-5W-30	D-3/4-8W-30	C-1-10W-30	B-1¼-20W-30	A-1½-30W-30	A-1½-50W-30	A-2-50W-30	A-2½-75W-30	A-3-100W-30
	HYDRAULIC OILS — COOLANTS — LUBRICANTS								
150	E-3/4-5-150	D-3/4-8-150	C-1-10-150	B-1¼-20-150	A-1½-30-150	A-1½-50-150	A-2-50-150	A-2½-75-150	A-3-100-150
200	E-3/4-5-200	D-3/4-8-200	C-1-10-200	B-1¼-20-200	A-1½-30-200	A-1½-50-200	A-2-50-200	A-2½-75-200	A-3-100-200
	"S" SERIES — PHOSPHATE ESTER BASE FIRE RESISTANT FLUID								
150	E-3/4-5S-150	D-3/4-8S-150	C-1-10S-150	B-1¼-20S-150	A-1½-30S-150	A-1½-50S-150	A-2-50S-150	A-2½-75S-150	A-3-100S-150
200	E-3/4-5S-200	D-3/4-8S-200	C-1-10S-200	B-1¼-20S-200	A-1½-30S-200	A-1½-50S-200	A-2-50S-200	A-2½-75S-200	A-3-100S-200
	"W" SERIES — WATER								
150	E-3/4-5W-150	D-3/4-8W-150	C-1-10W-150	B-1¼-20W-150	A-1½-30W-150	A-1½-50W-150	A-2-50W-150	A-2½-75W-150	A-3-100W-150
200	E-3/4-5W-200	D-3/4-8W-200	C-1-10W-200	B-1¼-20W-200	A-1½-30W-200	A-1½-50W-200	A-2-50W-200	A-2½-75W-200	A-3-100W-200

* STANDARD MESH

NOTE: To specify MarvelMag Magnetic Filters, insert letter "M" in Model Number. Example: A-2 1/2-75-100 becomes "A-2 1/2-75M100"

TYPICAL SUMP TYPE INSTALLATION

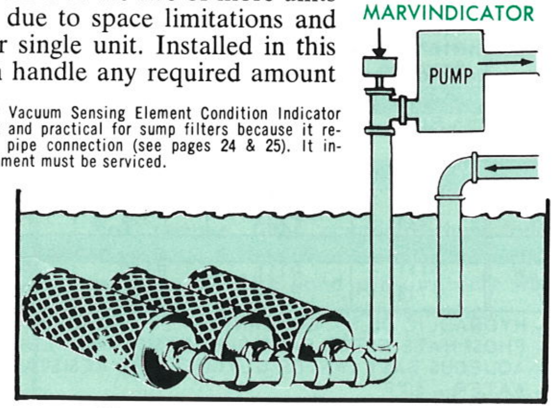
MARVINDICATOR



MARVEL SUMP TYPE FILTERS are not limited to their individual capacities. They can be installed and will work efficiently in a multiple or manifold application. In many applications it is advisable to use two or more units connected in multiple installation, due to space limitations and standardization, instead of a larger single unit. Installed in this manner, MARVEL FILTERS can handle any required amount of liquid flow.

"Marvindicator" Vacuum Sensing Element Condition Indicator most convenient and practical for sump filters because it requires only one pipe connection (see pages 24 & 25). It indicates when element must be serviced.

MARVINDICATOR



TYPICAL SINGLE UNIT INSTALLATION

TYPICAL MULTIPLE UNIT INSTALLATION