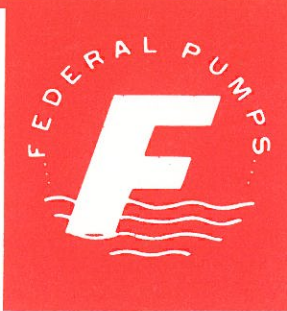


TYPE
MSV

**VERTICAL MULTI-STAGE
JOCKEY PUMPS**



FEATURES

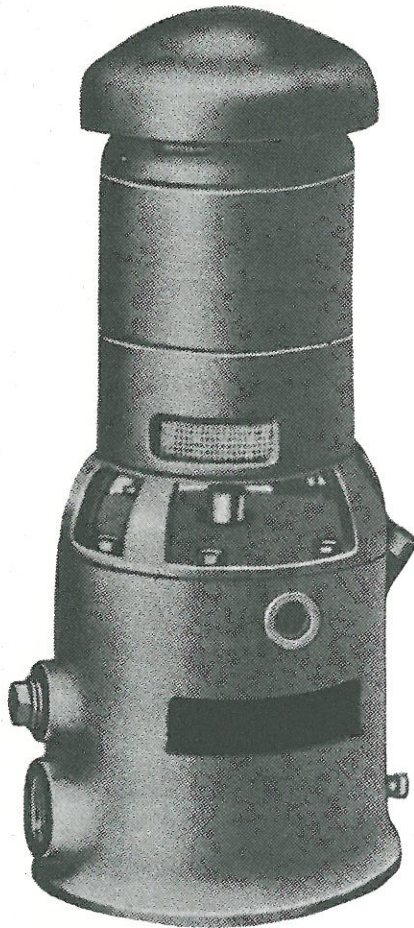
THE FEDERAL MSV VERTICAL, MULTI-STAGE, CENTRIFUGAL PUMP IS IDEALLY SUITED FOR JOCKEY PUMP SERVICE IN WATER PRESSURE BOOSTER SYSTEMS (SUCH AS THE FEDERAL TYPE SP SET-PRESSURE SYSTEM), WHERE SMALL OR MODERATE CAPACITY AND HIGH PRESSURE REQUIREMENTS EXIST. THE MULTI-STAGE DESIGN HAS THE ADVANTAGE OF STEEP PERFORMANCE CURVES PERMITTING LOW HORSEPOWER RATINGS.

THE MSV PUMP IS BRONZE-FITTED WITH STAINLESS STEEL SHAFT, SLEEVE TYPE COUPLING, CAST BRONZE IMPELLERS AND MECHANICAL SHAFT SEAL. PACKING GLANDS ARE AVAILABLE ON CERTAIN MSV SIZES. SUCTION AND DISCHARGE CONNECTIONS ARE EASILY ACCESSIBLE AND ALL PUMP WORKING PARTS ARE REMOVABLE WITHOUT DISTURBING THESE CONNECTIONS. MOTORS ARE VERTICAL, DRIP-PROOF TYPE, OPERATING AT 3450 R.P.M.

MAXIMUM OPERATING TEMPERATURE RATING FOR THESE PUMPS IS 180°F; THEREFORE THEY ARE ALSO SUITABLE FOR MOST BOILER FEED SERVICE.

SAMPLE SPEC.

FURNISH AND INSTALL AS SHOWN ON PLANS FEDERAL TYPE MSV VERTICAL, MULTI-STAGE, BRONZE-FITTED, CENTRIFUGAL JOCKEY PUMP, MODEL _____, RATED _____ G.P.M. AT _____ FT. TOTAL DYNAMIC HEAD. PUMP SHALL HAVE MECHANICAL SHAFT SEAL, STAINLESS STEEL SHAFT, SLEEVE TYPE COUPLING, CAST BRONZE IMPELLERS, CAST IRON HOUSING AND FLOOR-MOUNTING BASE. ALL WORKING PARTS SHALL BE REMOVABLE WITHOUT DISTURBING SUCTION OR DISCHARGE CONNECTION. PUMP SHALL BE DRIVEN BY A VERTICAL, DRIP-PROOF MOTOR, _____ H.P., _____ PHASE, _____ CYCLES, _____ VOLTS, 3450 R.P.M.



DIMENSIONS

MODEL	A	B	C	D	E	F
1MSV-1-2	7-5/16	24	7 1/2	1 1/2	1	9
1MSV-1 1/2-2	7-5/16	27	7 1/2	1 1/2	1	9
2MSV-2-2	7-5/16	28	7 1/2	1 1/2	2	9
1 1/2 MSV-3-2	8 1/2	30	11	2	1 1/2	10 1/4
1 1/2 MSV-5-2	12 1/2	35	11	2	1 1/2	10 1/4
1 1/2 MSV-7 1/2-2	12 1/2	35	11	2	1 1/2	10 1/4

MODEL	G	H	J	K	L
1MSV-1-2	4 3/8	10 1/4	7/8	1 1/8	5/8
1MSV-1 1/2-2	4 3/8	10 1/4	7/8	1 1/8	5/8
2MSV-2-2	4 3/8	10 1/4	7/8	1 1/8	5/8
1 1/2 MSV-3-2	5	11 3/4	7/8	2	3/4
1 1/2 MSV-5-2	5	11 3/4	7/8	2	3/4
1 1/2 MSV-7 1/2-2	5	11 3/4	7/8	2	3/4

