Series SD

Mechanical Metering Pumps

DATA SHEET



Model Code for Complete Pumps:

	Drive (Motor)				Motor &/or Mount		Liquid End	
		Frame (D or G)	Liquid End Size Code	Gear Ratio Code			Liquid End Material	Connections
Code:	S	D	4	3	+ J	+	7	P

Configuration Data

Series	Capacity per Hour Maximum Gallons @ 60 Hz	Capacity per Hour Maximum Liters @ 50 Hz	Strokes per Minute 60 Hz	Strokes per Minute 50 Hz	Maximum Injection Pressure	Stroke Length (Adjustable) Recommended Minimum	Average Shipping Weight
SD21	0.18/ *0.12	0.6/ *0.4	43	36	175 psi (12.1 Bar)	0 - 100% (Minimum 10%)	45 lbs. (20 kg)
SD22	0.35/ *0.23	1.1/ *0.7	86	72	175 psi (12.1 Bar)		
SD26	0.48/ *0.34	1.5 / *1.0	120	102	175 psi (12.1 Bar)		
SD23	0.70/ *0.51	2.2/ *1.6	173	144	175 psi (12.1 Bar)		
SD41	3	9.5	43	36	150 psi (10.3 Bar)		
SD42	6.6	21	86	72	150 psi (10.3 Bar)		
SD46	10	26	120	102	150 psi (10.3 Bar)		
SD43	14.4	45	173	144	150 psi (10.3 Bar)		
SD71	13	38	43	36	100 psi (6.9 Bar)		
SD72	25	79	86	72	100 psi (6.9 Bar)		
SD76	34	106	120	102	100 psi (6.9 Bar)		
SD73	50	159	173	144	100 psi (6.9 Bar)		
SD81	31	98	43	36	75 psi (5.2 Bar)		
SD82	57	178	86	72	75 psi (5.2 Bar)		
SD86	87	273	120	102	75 psi (5.2 Bar)		
SD83	127	401	173	144	75 psi (5.2 Bar)		

*Note: SD Series PVC and PVDF rating

Motor:

8 -- 0.25 hp, 1725 rpm, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C
9 -- 0.33 hp (.25 kW), 1425 rpm, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C
J -- 0.25 hp, 1725 rpm, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C
L -- 0.33 hp (.25 kW), 1425 rpm, 3 Phase, 50 Hertz, 220/380/440 Volt, TEFC, NEMA 56C
P -- DC Variable Speed Drive, 0.5 hp 1725 rpm TEFC motor w/DC Drive, 4-20 ma input, NEMA 4/12 115 VAC
X -- MOTOR MOUNT less Motor (Flange Mount, NEMA 56C)

Liquid End:

See next page for complete liquid end specification and selection.

Model Code for Drives only:

	Drive (Motor) - only					
	Frame (D or G)	Liquid End Size Code	Gear Ratio Code	Motor & or Mount		
Code:	S	D			-	DR

Liquid End Size Code	Liquid End Size Code: Description	Liquid End Size Code: Max GPH @ 173 SPM
2	Fits only liquid end code 2	0.7
4	Liquid end 5,6 & 7 are interchangeable on drives with any of these codes	14.4
7		50
8	Fits only liquid end code 8	127

Gear Ratio Code	Gear Ratio SPM @ 60 hz 1725 rpm	Gear Ratio SPM @ 50 hz 1425 rpm
1	43	36
2	86	72
6	120	102
3	173	144

Motor & or Mount	MOTORS:
8	See Motor Description for details
9	
J	
L	
P	DC Variable Speed Drive
X	MOUNT less Motor

Model Code for Liquid Ends only:

	Liquid End - only					
	Frame (D or G)	Liquid End Size Code	Liquid End Material	Connections		
Code:	S	D			-	LE

Liquid End Size Code	Liquid End Size Code: Description	Liquid End Size Code: Max GPH @ 173 SPM
2	Fits only liquid end code 2	0.7
4	Liquid end 5,6 & 7 are interchangeable on drives with any of these codes	14.4
7		50
8	Fits only liquid end code 8	127

Liquid End Material	Liquid End Material / Application: See Materials of Construction on back of sheet
2	PVDF
7	316SS
8	PVC
P	Polymer Appl.
L	Slurry Appl.
N	H2S04 Appl.

Connections	Connections
P	NPT (Standard)

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Standard Liquid End Configuration Data & Materials of Construction

Drive Assembly ❒ Motor Code	Liquid End		Size Code	Materials of Construction						RPM Kit
	LE Material	Connections		Head / Fittings	Balls	Diaphragm	Valve Seat	Seals	Connections	
SD21 ❒ SD22 ❒ SD26 ❒ SD23 ❒	2	P	2	PVDF/PVDF	Ceramic	Flurofilm™	Alloy C22	PolyPrel®	1/4" NPTM	RPM 099
	7	P	2	316ss/316ss Note 2	316ss	Flurofilm™	316ss	PTFE	1/4" NPTM	RPM 101
	8	P	2	PVC/PVDF Note 2	Ceramic	Flurofilm™	Alloy C22	PolyPrel®	1/4" NPTM	RPM099
	P	P	2	PVC/PVDF	Alloy 20	Flurofilm™	Alloy 22	Viton®	1/4" NPTM	Call factory
	N	P	2	PVC/PVDF	Alloy 20	Flurofilm™	Alloy 20	PolyPrel®	1/4" NPTM	Call factory
SD41 ❒ SD42 ❒ SD46 ❒ SD43 ❒	2	P	4	PVDF/PVDF	Ceramic	Gylon®	PTFE	PolyPrel®	1/4" NPTM	RPM 102
	7	P	4	316ss/316ss Note 2	316ss	Gylon®	316ss	PTFE	1/4" NPTM	RPM 104
	8	P	4	PVC/PVDF Note 2	Ceramic	Gylon®	PTFE	PolyPrel®	1/4" NPTM	RPM 102
	P	P	4	PVC/PVDF	316ss	Gylon®	316ss	Viton®	1/4" NPTM	RPM 196
	L	P	4	316ss/316ss	316ss	Gylon®	316ss	N/A	1/2" NPTM	RPM 212
	N	P	4	PVC/PVDF	Alloy 20	Gylon®	Alloy 20	PolyPrel®	1/4" NPTM	RPM 173
SD71 ❒ SD72 ❒ SD76 ❒ SD73 ❒	2	P	7	PVDF/PVDF	Ceramic	Gylon®	PVDF	Teflex®	1/2" NPTF	RPM 136
	7	P	7	316ss/316ss Note2	316ss	Gylon®	316ss	Viton®	1/2" NPTF	RPM 137
	8	P	7	PVC/PVDF Note 2	Ceramic	Gylon®	PVC	Viton®	1/2" NPTF	RPM 135
	P	P	7	PVC/PVC	316ss	Gylon®	316ss	Viton®	1/2" NPTF	RPM 211
	L	P	7	PVC/316ss	316ss	Gylon®	316ss	Viton®	1/2" NPTF	RPM 401
	N	P	7	PVC/PVDF	Alloy 20	Gylon®	Alloy 20	PolyPrel®	1/2" NPTF	RPM 175
SD81 ❒ SD82 ❒ SD86 ❒ SD83 ❒	2	P	8	PVDF/PVDF	Ceramic	Gylon®	PVDF	Teflex®	1/2" NPTF	RPM 106
	7	P	8	316ss/316ss Note 2	316ss	Gylon®	316ss	Viton®	1/2" NPTF	RPM 107
	8	P	8	PVC/PVDF Note 2	Ceramic	Gylon®	PVC	Viton®	1/2" NPTF	RPM 105
	P	P	8	PVC/PVC	316ss	Gylon®	316ss	Viton®	1/2" NPTF	RPM 210
	L	P	8	PVC/316ss	316ss	Gylon®	316ss	Viton®	1/2" NPTF	Call factory
	N	P	8	PVC/PVDF	Alloy 20	Gylon®	Alloy 20	Viton®	1/2" NPTF	RPM 183

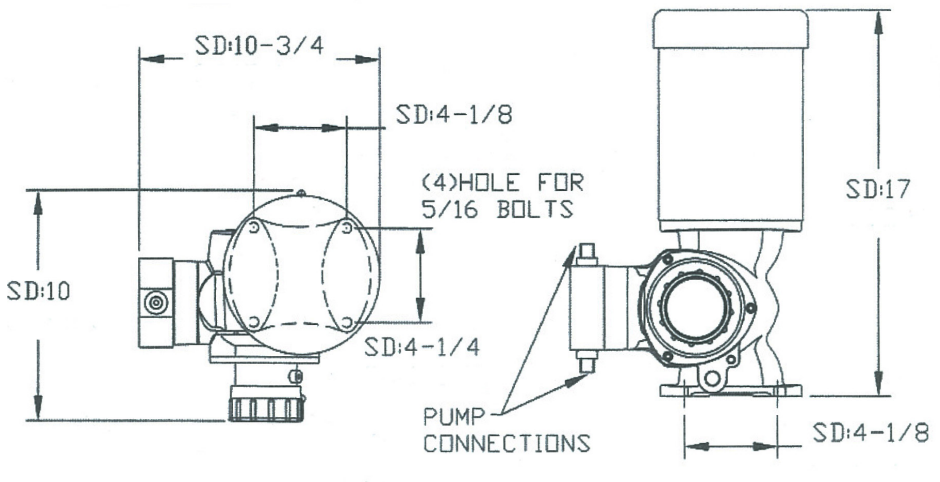
Note 1: Teflex® is a Teflon encapsulated Viton O-ring
Note 2: Liquid ends ETL certified to ANSI /NSF Std. 50
Note 3: High Viscosity Liquid Ends may result in a reduction of output.

Teflex, Teflon and Viton are registered trademarks of E.I. Dupont de Nemours and Company

Gylon is a registered trademark of Garlock

Flurofilm is a tradmark of Milton Roy, LLC

Polyprel is a registrered trademark of Milton Roy, LLC



Dimensions
Approximate for envelope estimations.
Dimensions are shown in inches.

WARNING:
A pressure relief valve MUST be installed in the discharge line of all motor driven pumps.

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