



SOTERA[®]

SYSTEMS

1/2" Air Operated Double Diaphragm Pump

Technical Specifications

1/2" MODEL DESCRIPTION INFORMATION

SP100 - 05X - XX - XXX - X

PORT SIZE

FLUID CONNECTION

N - 1/2"-14 NPTF-1
B - Rp 1/2" (BSPP)

DRIVE MATERIAL OF CONSTRUCTION

P - Polypropylene
C - Groundable Nylon

WET-END MATERIAL OF CONSTRUCTION

P - Polypropylene
D - Groundable Acetal
F - PVDF

DIAPHRAGM

S - Santoprene[®]
H - Hytrel[™]
T - PTFE with Santoprene[®] Backer

BALLS

S - Santoprene[®]
H - Hytrel[™]
T - PTFE

SEATS

S - Santoprene[®]
H - Hytrel[™]
P - PP (with PTFE seal)
F - PVDF (with PTFE seal)
D - Acetal (with PTFE seal)

OPTIONS

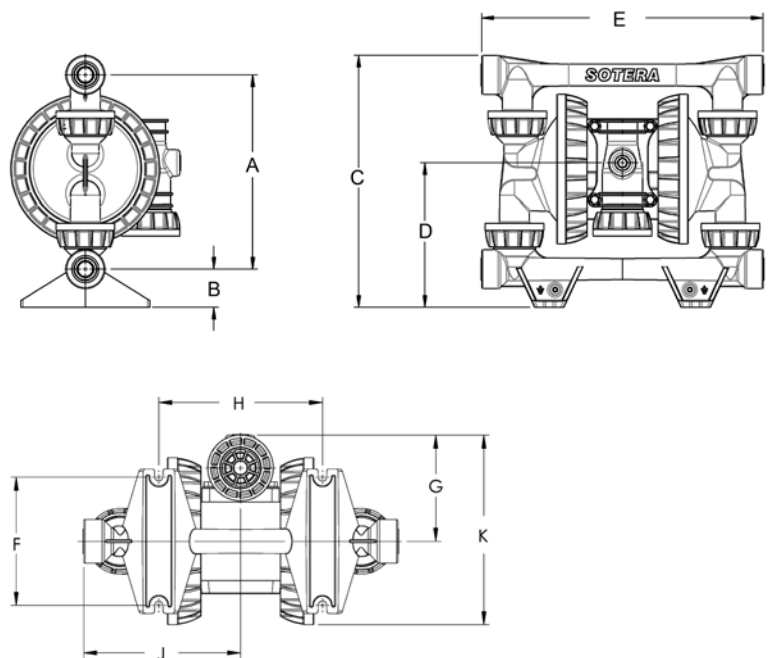
FLUID SECTION SERVICE KIT

DIAPHRAGM

BALLS

SEATS

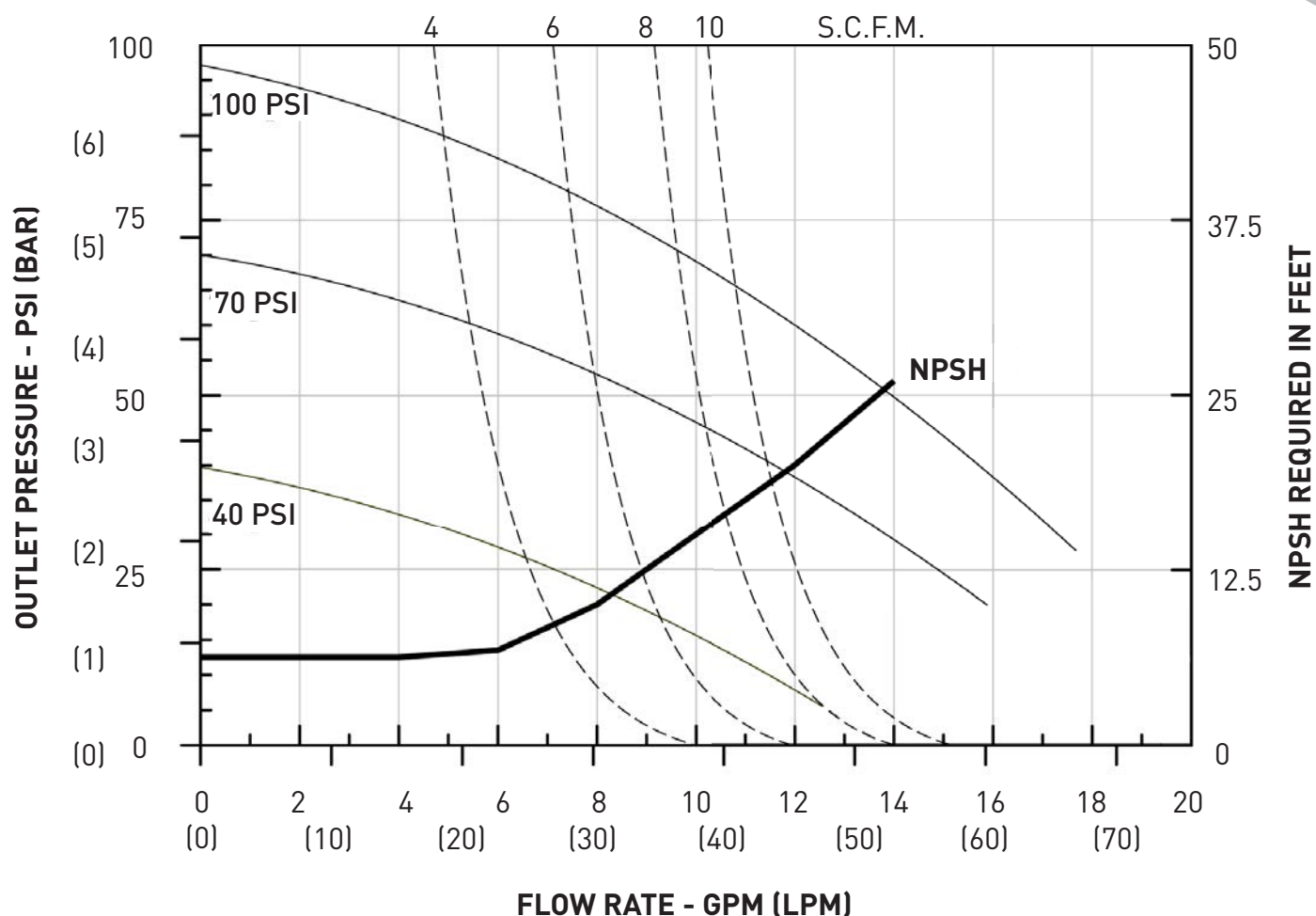
KIT
S10 X X X



Dimensions

A	8.245"	209.42 mm
B	1.625"	41.28 mm
C	10.70"	271.78 mm
D	6.123"	155.524 mm
E	12.00"	304.80 mm
F	4.875"	123.825 mm
G	4.031"	102.387 mm
H	6.250"	158.75 mm
J	6.00"	152.40 mm
K	7.206"	183.032 mm

SP100-05X-XX-XXX



Product Specs

Pump Type	Non-Metallic Air Operated Double Diaphragm
Models	See Model Description Chart
Construction Materials	See Model Description Chart
Maximum Air Inlet Pressure	100 PSIG (6.9 BAR)
Maximum Material Inlet Pressure	10 PSIG (0.69 BAR)
Maximum Outlet Pressure	100 PSIG (6.9 BAR)
Air Consumption (at 40 PSI)	0.65 cfm/gallon (approx.)
Air Connection	1/4" NPT
Maximum Flow Rate (flooded inlet)	17.5 GPM (66.23 LPM)
Displacement/Cycle at 100 PSIG	0.036 Gal. (0.14 L)
Maximum Particle Size	3/32" diameter (2.4 mm)
Maximum Temp Limits	
Acetal	-10° to 180°F (-12° to 82°C)
HYTREL®	-20° to 150°F (-29° to 66°C)
PVDF	10° to 200°F (-12° to 93°C)
Polypropylene	35° to 175°F (2° to 79°C)
Santoprene®	-40° to 225°F (-40° to 107°C)
PTFE	40° to 225°F (4° to 107°C)

Dimensions

Box Dimensions	11 3/4" (H) x 14 1/4" (W) x 9 1/8" (D)
Polypropylene Pump Weight	5.7 lbs. (2.6 Kg.)
PVDF Pump Weight	7.2 lbs. (3.3 Kg.)
Groundable Acetal Pump Weight	6.8 lbs. (3.1 Kg.)
Polypropylene (Box Weight)	7.2 lbs. (3.3 Kg.)
PVDF (Box Weight)	8.7 lbs. (4.0 Kg.)
Groundable Acetal (Box Weight)	8.3 lbs. (3.8 Kg.)
Noise Level	75.0 db (A) (at 70 PSI, 60 cpm)

Accessories

Part #	Description	Contents
KITS10WMA	Wall Mount Bracket	Steel bracket for wall mount applications of the SP100 Air Operated Diaphragm Pump
KITS10FRH	Filter/Regulator	Air line filter, regulator, and hose
KITS05MUF	Muffler	Muffler for air exhaust
KITS10WCH	Assembly Wrench	Special service tool for use on fluid cap rings