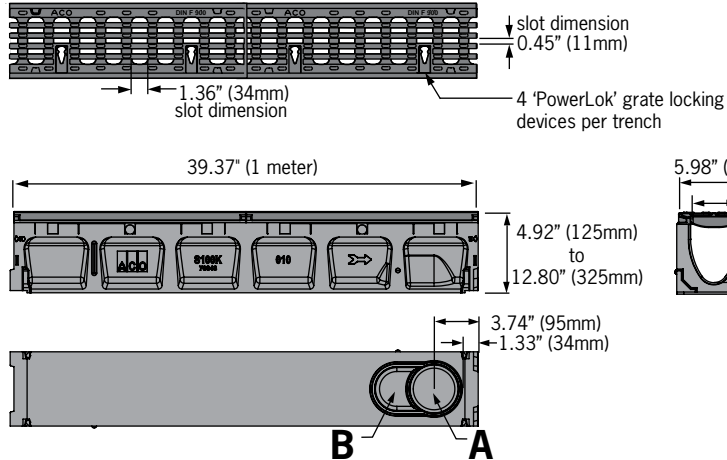


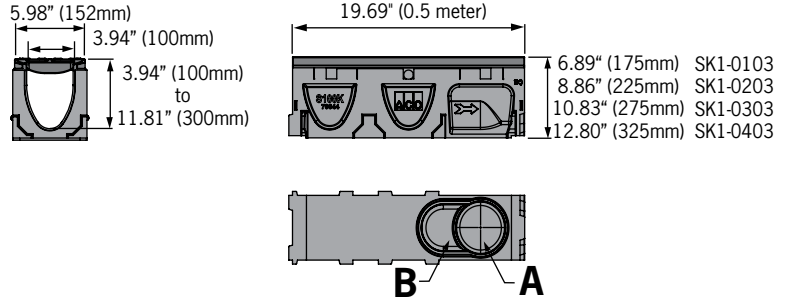
# PowerDrain - S100K iron edged channel system with longitudinal grate (ADA)

## One meter channel

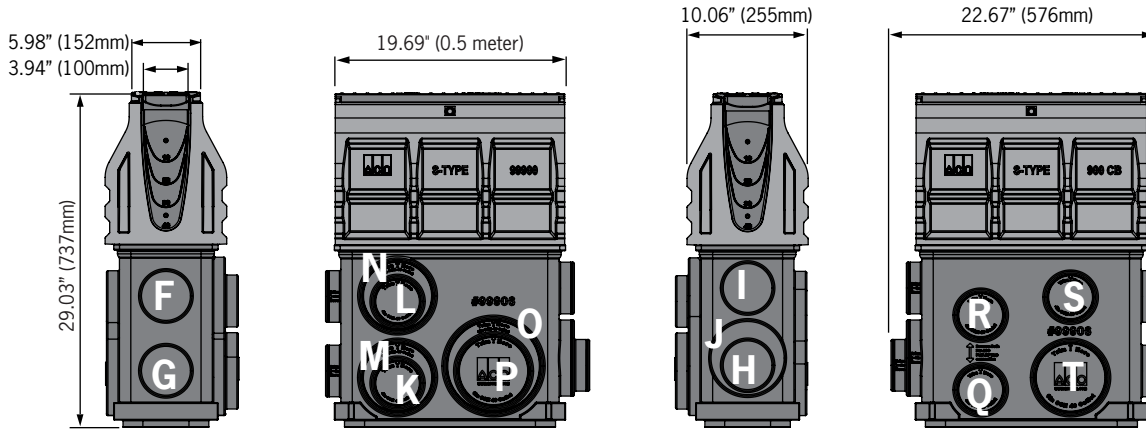


Knock-outs included on every 5th channel

## Half meter channel



## Type 901D In-line catch basin



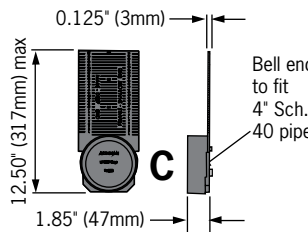
Total capacity = 10.49 gallons.

## Outlet flow rates

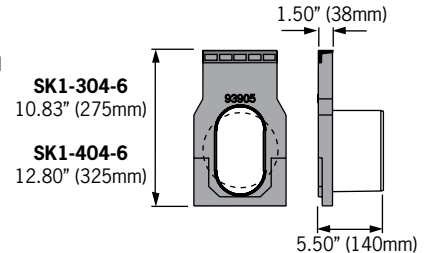
Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - SK1-00	4" round	3.94"	108	0.24
A	Bottom outlet - SK1-40	4" round	11.81"	187	0.42
B	Bottom outlet - SK1-00	6" oval	3.94"	177	0.39
B	Bottom outlet - SK1-40	6" oval	11.81"	306	0.68
C	End outlet - SK1-20	4" round	7.87"	132	0.29
C	End outlet - SK1-40	4" round	11.81"	171	0.38
D	SK1-308-6 6" outlet cap	6" oval	9.84"	233	0.52
E	SK1-408-6 6" outlet cap	6" oval	11.81"	264	0.59
F	Type SK1-901D	4" round	19.87"	230	0.51
G	Type SK1-901D	4" round	26.37"	268	0.60
H	Type SK1-901D	4" round	25.87"	266	0.59
I	Type SK1-901D	4" round	19.16"	226	0.50
J	Type SK1-901D	6" round	26.29"	593	1.32
K	Type SK1-901D	4" round	27.22"	272	0.61
L	Type SK1-901D	4" round	20.11"	231	0.51
M	Type SK1-901D	6" round	27.79"	611	1.36
N	Type SK1-901D	6" round	20.65"	514	1.15
O	Type SK1-901D	8" round	27.79"	1065	2.37
P	Type SK1-901D	6" round	27.22"	601	1.34
Q	Type SK1-901D	4" round	27.79"	276	0.62
R	Type SK1-901D	4" round	21.30"	239	0.53
S	Type SK1-901D	4" round	19.73"	228	0.51
T	Type SK1-901D	6" round	27.79"	610	1.36

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates. Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

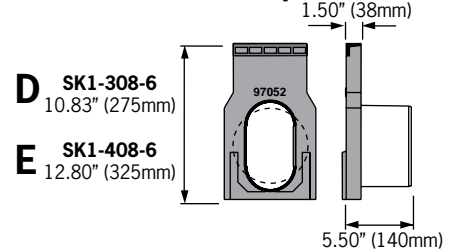
## End Caps



## 6" Oval inlet cap



## 6" Oval outlet cap



## PowerDrain - S100K iron edged channel system with longitudinal grate (ADA)



Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight lbs.
<b>SK1-00 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70141</b>	<b>3.94</b>	<b>100</b>	<b>76.7</b>
SK1-1 Sloped channel - 39.37" (1m)	70101	4.13	105	76.7
SK1-2 Sloped channel - 39.37" (1m)	70102	4.33	110	77.7
SK1-3 Sloped channel - 39.37" (1m)	70103	4.53	115	78.7
SK1-4 Sloped channel - 39.37" (1m)	70104	4.72	120	79.7
SK1-5 Sloped channel - 39.37" (1m) <sup>D</sup>	70105	4.92	125	80.7
SK1-6 Sloped channel - 39.37" (1m)	70106	5.12	130	81.7
SK1-7 Sloped channel - 39.37" (1m)	70107	5.31	135	82.7
SK1-8 Sloped channel - 39.37" (1m)	70108	5.51	140	83.7
SK1-9 Sloped channel - 39.37" (1m)	70109	5.71	145	84.7
SK1-10 Sloped channel - 39.37" (1m) <sup>D</sup>	70110	5.91	150	85.7
<b>SK1-010 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70143</b>	<b>5.91</b>	<b>150</b>	<b>85.7</b>
<b>SK1-0103 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70144</b>	<b>5.91</b>	<b>150</b>	<b>43.7</b>
SK1-11 Sloped channel - 39.37" (1m)	70111	6.10	155	86.7
SK1-12 Sloped channel - 39.37" (1m)	70112	6.30	160	87.7
SK1-13 Sloped channel - 39.37" (1m)	70113	6.50	165	88.7
SK1-14 Sloped channel - 39.37" (1m)	70114	6.69	170	89.7
SK1-15 Sloped channel - 39.37" (1m) <sup>D</sup>	70115	6.89	175	90.7
SK1-16 Sloped channel - 39.37" (1m)	70116	7.09	180	91.7
SK1-17 Sloped channel - 39.37" (1m)	70117	7.28	185	92.7
SK1-18 Sloped channel - 39.37" (1m)	70118	7.48	190	93.7
SK1-19 Sloped channel - 39.37" (1m)	70119	7.68	195	94.7
SK1-20 Sloped channel - 39.37" (1m) <sup>D</sup>	70120	7.87	200	95.7
<b>SK1-020 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70145</b>	<b>7.87</b>	<b>200</b>	<b>95.7</b>
<b>SK1-0203 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70146</b>	<b>7.87</b>	<b>200</b>	<b>48.2</b>
SK1-21 Sloped channel - 39.37" (1m)	70121	8.07	205	96.7
SK1-22 Sloped channel - 39.37" (1m)	70122	8.27	210	97.7
SK1-23 Sloped channel - 39.37" (1m)	70123	8.46	215	98.6
SK1-24 Sloped channel - 39.37" (1m)	70124	8.66	220	99.6
SK1-25 Sloped channel - 39.37" (1m) <sup>D</sup>	70125	8.86	225	100.6
SK1-26 Sloped channel - 39.37" (1m)	70126	9.06	230	101.6
SK1-27 Sloped channel - 39.37" (1m)	70127	9.25	235	102.6

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight lbs.
SK1-28 Sloped channel - 39.37" (1m)	70128	9.45	240	103.6
SK1-29 Sloped channel - 39.37" (1m)	70129	9.65	245	104.6
SK1-30 Sloped channel - 39.37" (1m) <sup>D</sup>	70130	9.84	250	105.6
<b>SK1-030 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70147</b>	<b>9.84</b>	<b>250</b>	<b>105.6</b>
<b>SK1-0303 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70148</b>	<b>9.84</b>	<b>250</b>	<b>52.7</b>
SK1-31 Sloped channel - 39.37" (1m)	70131	10.04	255	106.6
SK1-32 Sloped channel - 39.37" (1m)	70132	10.24	260	107.6
SK1-33 Sloped channel - 39.37" (1m)	70133	10.43	265	108.6
SK1-34 Sloped channel - 39.37" (1m)	70134	10.63	270	109.6
SK1-35 Sloped channel - 39.37" (1m) <sup>D</sup>	70135	10.83	275	110.6
SK1-36 Sloped channel - 39.37" (1m)	70136	11.02	280	111.6
SK1-37 Sloped channel - 39.37" (1m)	70137	11.22	285	112.6
SK1-38 Sloped channel - 39.37" (1m)	70138	11.42	290	113.6
SK1-39 Sloped channel - 39.37" (1m)	70139	11.61	295	114.6
SK1-40 Sloped channel - 39.37" (1m) <sup>D</sup>	70140	11.81	300	115.6
<b>SK1-040 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>70149</b>	<b>11.81</b>	<b>300</b>	<b>115.6</b>
<b>SK1-0403 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>70150</b>	<b>11.81</b>	<b>300</b>	<b>57.3</b>
SK1-901D In-line catch basin - 19.69" (0.5m) <sup>D</sup>	94613	28.23	717	100.3
SK1-621D catch basin - 19.69" (0.5m) <sup>D</sup>	94574	28.86	733	102.7
SK1-631D catch basin - 19.69" (0.5m) <sup>D</sup>	94584	40.86	1038	98.7
Series 600 optional riser	99902	-	-	10.0
Foul air trap - fits both 900 & 600 basins	90854	-	-	1.2
SK1-304-6 6" Inlet Cap	96861	9.84	250	6.2
SK1-308-6 6" Outlet Cap	96862	9.84	250	6.0
SK1-404-6 6" Inlet Cap	96863	11.81	300	7.2
SK1-408-6 6" Outlet Cap	96864	11.81	300	7.0
SK1-Universal end cap	96824	11.81	300	0.4
Debris strainer for 4" bottom knockout	93488	-	-	0.2
4" Oval to 6" round outlet adaptor	95140	-	-	1.1
4" Installation device	97477	-	-	2.8
Grate removal tool	01318	-	-	0.3

**Notes:**

- This channel offers bottom knockout feature; 4" round/6" oval.
- Inverts shown are male end; for female invert depth subtract 5mm (≈0.2") from male invert (except neutral channels where it will be same as male invert). To calculate overall channel depth add 25.4mm (≈1") to invert depth.
- Catch basin assembly includes polymer concrete top, PowerLok grate, trash bucket and plastic base.
- Catch basin assembly includes polymer concrete top, PowerLok grate, deep trash bucket, plastic riser and plastic base.
- Water intake per meter channel is 50.4 in<sup>2</sup> (325.16 cm<sup>2</sup>)

**Specifications****General**

The surface drainage system shall be ACO Drain PowerDrain S100K complete with longitudinal gratings secured with 'PowerLok' locking as manufactured by ACO, Inc. or equal approved.

**Materials**

The trench system bodies shall be manufactured from polyester polymer concrete with minimum properties as follows:

Compressive strength:	14,000 psi
Flexural strength:	4,000 psi
Water absorption	0.07%

Frost proof	YES
Salt proof	YES
Dilute acid and alkali resistant	YES

The nominal clear opening shall be 4" (100mm) with overall width of 6.30" (160mm). Pre-cast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.67" (16mm). Each unit will feature a partial radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring keys on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The ductile iron edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity

between polymer concrete body and edge rail. Each edge rail shall be at least 1/4" (6mm) thick.

**Grates**

Grates are manufactured from longitudinal ductile iron. Ductile iron to ASTM 536-84 - Grade 65-45-12. After removal of grates there shall be uninterrupted access to the trench to aid maintenance.

**Installation**

The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

**ACO, Inc.****Northeast Sales Office**

9470 Pinecone Drive  
Mentor, OH 44060  
Tel: (440) 639-7230  
Toll free: (800) 543-4764  
Fax: (440) 639-7235

**West Sales Office**

825 W. Beechcraft St.  
Casa Grande, AZ 85122  
Tel: (520) 421-9988  
Toll Free: (888) 490-9552  
Fax: (520) 421-9899

**Southeast Sales Office**

4211 Pleasant Road  
Fort Mill, SC 29708  
Toll free: (800) 543-4764  
Fax: (803) 802-1063

**Follow us on****Electronic Contact:**

info@ACODrain.us  
www.ACODrain.us

**SPEC**  
**INFO**  
**ACO**