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plumbing & building products



SPS QUICK SELECTION GUIDE

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Selecting Drains

SPS have a range of drains including commercial floor drains, balcony drains, roof outlets and planter box drains together with a range of accessories such as filter baskets and strainers, and PVC bodies. This short form selection guide is a snap shot of what is available in the SPS range. For more grate styles and applications please refer to their full catalogue, which is available from Civil and General Distributors.

SPS has developed their systems over many years to provide flexibility, ease of installation, and quality in performance when it comes to flow rates and materials incorporated.

Whilst they provide the original style and materials such as Nickel Bronze, their added strength lies in producing a full range of high quality Stainless Steel products at competitive pricing.

Their expertise has enabled them to develop flexible assembly systems to enable variable level drains, incorporating a universal cast iron body and BSP collars, together with choices of push in and a glue in PVC

adaptor to DWV piping (used in conjunction with Grates with BSP threads).

HDPE and DWV pipes are catered for by the use of different O Rings in the push in range. Please specify pipe type when ordering push-in floor drains.

This short form floor drain selection guide should be used in conjunction with the full SPS specification catalogue also readily available from Civil and General Distributors.

It is designed to demonstrate in a simple way in which different assemblies are made up from separate sub units. It is not to be used as a final specification catalogue. Full detail drawings, with dimensions are available in the full SPS specification catalogue.

The easiest way to order is define a typical assembly you are looking for, and order as such. It will be quoted and supplied as separate subunits.



MORE CHOICE WITH
CIVIL & GENERAL DISTRIBUTORS



ROOF OUTLETS



SPS Roof Outlet 100mm

ASSEMBLY CODE: **TIA 100F**

- 100mm Truflo C/I Body
- Flat Galvanised Roof Grate with 260mm O/A width
- *Optional extra: T100C Coupling (to 100mm pipe)

APPLICATIONS: Car parks | Decks | Plant rooms | Pedestrian precincts

TIC100Y2A Body
TIC105DG2 Grate
Refer to SPS Catalogue Pg 1.02 for details



SPS Roof Outlet 150mm

ASSEMBLY CODE: **TIA 150F**

- 150mm Truflo C/I Body
- Flat Galvanised Roof Grate with 260mm O/A width
- *Optional extra: T150C Coupling (to 150mm pipe)

APPLICATIONS: Car parks | Decks | Plant rooms | Pedestrian precincts

TIC150DG2 Body
TIC150Y2A Grate
Refer to SPS Catalogue Pg 1.02 for details



SPS Roof Outlet 150mm

ASSEMBLY CODE: **SIA 150F**

- 150mm Superlo C/I Body
- Flat Galvanised Roof Grate with 400mm O/A width
- *Optional extra: T150C Coupling (to 150mm pipe)

APPLICATIONS: Car parks | Decks | Roof top car parks

SIC150Y Body
SIC105DG Grate
Refer to SPS Catalogue Pg 1.10 for details



SPS Roof Outlet 100mm 2 Piece Grate

ASSEMBLY CODE: **TIA 100F2**

- 100mm Truflo C/I Body (push into 100DWW socket)
- Flat Aluminum membrane ring + grate
- *Optional extra: T100C Coupling (to 100mm pipe)

Also available with 150mm outlet TIA 150F2

APPLICATIONS: Planter boxes | Plant rooms | Roof decks | Membraned floors/roofs

TIC100Y2A Body
TIC105FG2 Grate
TIC 105R2 Clamp Ring
Refer to SPS Catalogue Pg 1.03 for details



SPS Roof Outlet 90deg Flat Grate Push in 100mm PVC

ASSEMBLY CODE: **TIA 100/90F**

- 90 degree Truflo flat grate roof outlet
- One piece - no membrane clamp (push into 100mm PVC)

APPLICATIONS: Car parks | Decks | Plant rooms

TIC100/90YR Body 90deg
TIC105DG2 Grate
SPS Catalogue Pg 1.06 for details



SPS Roof Outlet 90deg 2 Piece Grate Push in 100mm PVC

ASSEMBLY CODE: **TIA 100/90F2**

- 90 degree Truflo flat grate roof outlet
- Two piece - membrane clamp (push into 100mm PVC)

APPLICATIONS: Roof decks | Decks | Plant rooms | Membraned floors/roofs

TIC100Y2A Body
TIC105FG2 Grate
TIC 105R2 Clamp Ring
SPS Catalogue Pg 1.07 for details



SPS Roof Outlet 90 deg Dome Grate Push in 100mm PVC

ASSEMBLY CODE: **TIA 100/90D2**

- 90 degree Truflo dome grate roof outlet
- Two piece - membrane clamp (push into 100mm PVC)

APPLICATIONS: Roof decks | Decks | Plant rooms | Membraned floors/roofs

TIC100Y2A Body
TIA100D2 Grate
TIC 105R2 Clamp Ring
SPS Catalogue Pg 1.08 for details

ROUND DRAINS



SPS Push In 100mm Round Drain

ASSEMBLY CODE: **R 100SR**

- 100mm Round drain S/S
- Push in 50mm PVC
- Min height 25mm

Refer to SPS Catalogue Pg 2.02 for details



SPS Push In 100mm Round Drain

ASSEMBLY CODE: **R 100/80SR**

- 100mm Round S/S
- Push in 80mm PVC
- Min height 18mm

Refer to SPS Catalogue Pg 2.02 for details



SPS Push In 110mm Round Heel Friendly Drain

ASSEMBLY CODE: **DG 100SF**

- 110mm Round 304 S/S
- Push in 100mm PVC pipe or leak control valve
- Min height 17mm
- High-heel friendly pattern (5mm gaps)

Refer to SPS Catalogue Pg 2.01 for details



SPS Push In 130mm Round Drain

ASSEMBLY CODE: **R 130SR**

- 130mm Round S/S
- Push in 100mm PVC or HDPE
- Min height 20mm

Refer to SPS Catalogue Pg 2.04 for details



SPS Push In 130mm Round Drain

ASSEMBLY CODE: **R 130/80SR**

- 130mm Round S/S
- Push in 80mm PVC or HDPE
- Min height 20mm

Refer to SPS Catalogue Pg 2.04 for details



SPS Push In 150mm Round Drain

ASSEMBLY CODE: **R 150SR**

- 150mm Round S/S
- Push in 100mm PVC, HDPE or Cu
- Min height 30mm
- High-heel friendly pattern (5mm gaps)

Refer to SPS Catalogue Pg 2.09 for details



SPS Push In 225mm Round Drain

ASSEMBLY CODE: **R 225SR**

- 225mm Round S/S
- Push in 100mm PVC, HDPE or Cu
- Min height 30mm
- High-heel friendly pattern (5mm gaps)

Refer to SPS Catalogue Pg 2.16 for details

SQUARE DRAINS



SPS Push In 100mm Square Drain

ASSEMBLY CODE: **Q 100SR**

- 100mm Square S/S
- Push in 50mm PVC
- Min height 25mm
- *316 S/S

Refer to SPS Catalogue Pg 2.03 for details



SPS Push In 110mm Square Heel Friendly Drain

ASSEMBLY CODE: **DG 100SF2**

- 110mm Square 304 S/S
- Push in 100mm PVC pipe or leak control valve
- Min height 17mm
- High-heel friendly pattern (5mm gaps)

Refer to SPS Catalogue Pg 2.01 for details



SPS Push In 130mm Square Drain

ASSEMBLY CODE: **Q 130SRQ6**

- 130mm Square S/S
- Push in 100mm PVC, HDPE or Cu
- Min height 20mm
- Square hole pattern

Refer to SPS Catalogue Pg 2.07 for details



SPS Push In 150mm Square Drain

ASSEMBLY CODE: **Q 150SR**

- 150mm Square S/S
- Push in 100mm PVC, HDPE or Cu
- Min height 30mm
- *Square grate available in 304 or 316 S/S

Refer to SPS Catalogue Pg 2.10 for details



SPS Push In 200mm Square Drain

ASSEMBLY CODE: **Q 200SRL**

- 200mm Square S/S
- Push in 100mm PVC, HDPE or Cu
- Min height 30mm
- Class C
- High-heel friendly pattern (6mm gaps)

Refer to SPS Catalogue Pg 2.13 for details



SPS Push In 200mm Square Drain

ASSEMBLY CODE: **Q 200/150SR**

- 200mm Square S/S
- Push in 150mm PVC, HDPE or Cu
- Min height 30mm

Refer to SPS Catalogue Pg 2.15 for details



SPS 300mm Square Drain

ASSEMBLY CODE: **Q 300SL6**

- 300mm Square S/S grate w/- 150 bsp
(use pvc adaptor 150/100n or e150n to push into pvc pipe)

APPLICATIONS:
Pedestrian precincts



SPS Push In 300mm Square Heel Friendly Drain

ASSEMBLY CODE: **Q 300S2**

- 300mm Square high-heel friendly S/S grate w/- 150 bsp
(use pvc adaptor 150/100n or e150n to push into PVC pipe)

Refer to Full SPS Catalogue Pg 3.01 for details

VARI-LEVEL DRAINS



SPS Vari-Level Drain 150mm Round

ASSEMBLY CODE: **R 150S/C**

- 150mm Round vertical drain S/S
- C/I body 100mm PVC socket
- Height adjustable hinged grate and frame
- *Optional extra: T100C Coupling (to 100mm pipe)

R150N Grate
TIC100Y2A Body
CC100 BSP Collar
Available with 90deg C/I body R 150N/90C
Refer Full SPS Catalogue Pg 3.09 for details



SPS Vari-Level Drain 150mm Square

ASSEMBLY CODE: **Q 150S/C**

- 150mm Square vertical drain S/S
- 100mm outlet
- Push in 100mm PVC socket
- Height adjustable hinged grate assembly
- *Optional extra: T100C Coupling (to 100mm pipe)

Q150S Grate
TIC100Y2A Body
CC100 BSP Collar
Available with 90deg C/I body Q 150S/90C
Refer Full SPS Catalogue Pg 3.10 for details



SPS Vari-Level Drain 200mm Square

ASSEMBLY CODE: **Q 200S/C100**

- 200mm Square vertical drain S/S
- 100mm outlet
- Push in 100mm PVC socket
- Height adjustable hinged grate assembly
- *Optional extra: T100C Coupling (to 100mm pipe)

Q200S Grate
TIC100Y2A Body
CC100 BSP Collar
Available with 90deg C/I body Q 200S/90C
Refer Full SPS Catalogue Pg 3.12 for details



SPS Vari-Level Drain 200mm Square

ASSEMBLY CODE: **Q 200S/C150**

- 200mm Square vertical drain S/S
- 150mm outlet
- Push in 150mm PVC socket
- Height adjustable hinged grate and frame
- *Optional extra: T150C Coupling (to 150mm pipe)

Q200S/150S Grate
TIC150Y2A Body
CC150 BSP Collar
Refer Full SPS Catalogue Pg 3.16 for details



SPS Vari-Level Drain 225mm Square

ASSEMBLY CODE: **Q 225S/C100**

- 200mm Square vertical drain S/S
- C/I body to 100mm outlet
- Height adjustable hinged grate and frame
- *Optional extra: T100C Coupling (to 100mm pipe)

Q225S Grate
TIC100Y2A Body
CC150 BSP Collar
Available with 90deg C/I body Q 225S/90C
Refer Full SPS Catalogue Pg 3.18 for details



SPS Vari-Level Drain 225mm Square

ASSEMBLY CODE: **Q 225S/C150**

- 225mm Square vertical drain S/S
- C/I body to 150mm outlet
- Height adjustable hinged grate and frame
- *Optional extra: T150C Coupling (to 150mm pipe)

Q225S Grate
TIC150Y2A Body
CC150 BSP Collar
Refer Full SPS Catalogue Pg 3.18 for details



SPS Vari-Level Drain 300mm Square

ASSEMBLY CODE: **Q 300SL/C150**

- 300mm Square vertical drain S/S
 - C/I body to 150mm outlet
 - Height adjustable hinged grate and frame
 - *Optional extra: T150C Coupling (to 150mm pipe)
- APPLICATIONS: Pedestrian precincts

Q300SL6 Grate
TIC150Y2A Body
CC150 BSP Collar



SPS Vari-Level Drain 300mm Square

ASSEMBLY CODE: **Q 300SL6/C100**

- 300mm Square vertical drain N/Bronze
 - C/I body to 100mm outlet
 - Height adjustable hinged grate and frame
 - *Optional extra: T100C Coupling (to 100mm pipe)
- APPLICATIONS: Traffic areas

Q300SL6 Grate
TIC100Y2A Body
CC150 BSP Collar
Available with 90deg C/I body Q 300S/90C



SPS Vari-Level Drain 65/50 Outlet

ASSEMBLY CODE: **R 100S/C**

- 100mm round S/S grate
- C/I body to 65mm PVC
- *Cast iron lower body and reversible membrane clamp collar with female 65mm BSP thread

R100/65S Grate
 P65A body to 65mm PVC
 Refer Full SPS Catalogue Pg 3.01 for details



SPS Vari-Level Drain 65/50 Outlet

ASSEMBLY CODE: **Q 100S/C**

- 100mm round S/S vertical bodies
- C/I body to 65mm PVC
- *Cast iron lower body and reversible membrane clamp collar with female 65mm BSP thread

Q100/65S Grate
 C65A body to 65mm PVC
 Refer Full SPS Catalogue Pg 3.02 for details



SPS Vari-Level Outlet Drain 65/50 outlet

ASSEMBLY CODE: **R 100S/P90**

- 100mm Round S/S 90deg balcony drain
- PVC body 50mm or 65mm outlet (use a 65x50 LIT for 50mm)
- *ABS 90 degree body and reversible membrane clamp collar with female 65mm BSP thread

R100/65S Grate
 P65/90 Body to 65mm PVC
 Refer Full SPS Catalogue Pg 4.01 for details



SPS Vari-Level Drain 65/50 Outlet

ASSEMBLY CODE: **Q 100S/P90**

- 100mm square S/S 90deg balcony drain,
- PVC body 50mm or 65mm outlet (use a 65x50 LIT for 50mm)
- *ABS 90 degree body and reversible membrane clamp collar with female 65mm BSP thread

Q100/65S Grate
 P65A body to 65mm PVC
 Refer Full SPS Catalogue Pg 4.02 for details



SPS Special Dome 90 deg Balcony Drain 65/50mm Outlet

ASSEMBLY CODE: **C50/90AD**

- 100mm round aluminium 90 degree drain
- PVC body 50mm or 65mm outlet (use a 65x50 LIT for 50mm)

APPLICATIONS: Waterproofed balconies, podia with timber decking or suspended paver systems

P65A body to 65mm PVC
 C50/90AD Grate
 Refer Full SPS Catalogue Pg: 9.03
 for details

PLANTER BOX DRAINS



SPS Planter Box Drain 100mm Push in 100mm PVC

ASSEMBLY CODE: **TIA 100PB**

- 100mm C/I Body
- PVC Grate
- Push into 100mm
- *Optional extra: T100C Coupling (to 100mm pipe)

APPLICATIONS: Planter boxes | Down pipes

TIC100Y2A Body
 TC105PB PVC Grate
 Refer to SPS Catalogue Pg 1.05 for details



SPS Planter Box Drain 100mm 90deg Body (ASSY)

ASSEMBLY CODE: **TIA 100/90PB**

- Planter box drain C/I Body
- PVC Grate
- 90 degree body
- Push into 100mm

APPLICATIONS: Planter boxes | Down pipes

TIC100/90YR Body
 TC105PB PVC Grate
 Refer to SPS Catalogue Pg 1.09 for details

BUCKET TRAPS



SPS Square Bucket Trap (Deep body) 200mm

ASSEMBLY CODE: **Q 200SSA3**

- 200mm Square grate
- Deep body C/I push in 100mm
- Secondary strainer and basket
- *Height adjustable hinged bucket trap assembly*

Q200/150S Grate
 Q150/100YR Deep Body
 SB 150 Basket
Refer Full SPS Catalogue Pg 6.16 for details



SPS Square Bucket Trap (Deep body) 225mm

ASSEMBLY CODE: **Q 225SSA3**

- 225mm Square grate
- Deep body C/I push in 100mm
- Secondary strainer and basket
- *Height adjustable hinged bucket trap assembly*
- Note: 300mm grate version also available Q300SSA3*

Q225/150S Grate
 Q150/100YR Deep Body
 SB 150 Basket
Refer Full SPS Catalogue Pg 6.18 for details



SPS Round Bucket Trap 150mm

ASSEMBLY CODE: **R 150SSA**

- 150mm Round vari-grate
- C/I push 100mm with basket
- Secondary strainer
- *Height adjustable bucket trap with lift-out grate*

R150S Grate
 C100AR Body
 SB 85 Basket
 Optional secondary strainer SS100S
Refer Full SPS Catalogue Pg 6.11 for details

SEDIMENT BASKETS

90mm Sediment Basket	150mm Sediment Basket	150mm Sediment Basket	SPS Vinyl Floor Bucket Trap 100mm	SPS Tile Floor Bucket Trap 100mm
90mm diameter S/S sediment basket	150mm diameter S/S sediment basket	150mm diameter S/S sediment basket, short	100mm vinyl floor bucket trap for PVC or HDPE or Cu	100mm floor bucket trap for tile/EXPOXY floor
CODE: SB 90	CODE: SB 150	CODE: SB 150S	CODE: V 100SSA-BT	CODE: Q 150SR-BT

ADAPTORS

SPS PVC Push-in Adaptor 100mm	SPS PVC Push-in Adaptor 150/100mm	SPS PVC Push-in Adaptor 150mm	SPS Cast Iron M&F Extension Piece	SPS Cast Iron M&F Extension Piece
100mm FI PVC Push-in adaptor	150mm FI PVC Push-in adaptor*	150mm FI to 150mm Push-in pvc adaptor*	C/I 100mm M & F extension up to 50mm	C/I 150mm M & F extension up to 50mm
CODE: E 100N	CODE: E 150/100N	CODE: E 150N	CODE: E P100	CODE: E P150

* O-ring spigot pushes into 80mm PVC pipe

FLOOR WASTE & CLEANOUTS



SPS Push-in Sheet Vinyl Floor Waste 80mm

ASSEMBLY CODE: **V 80SSA4**

- 80mm push-in vinyl floor drain S/S grate and ring, brass body
- * Push-in floor waste assembly for sheet vinyl flooring

Refer Full SPS Catalogue Pg 5.02 for details



SPS Sheet Vinyl 50mm Push In Drain

ASSEMBLY CODE: **LG50SSA4**

- 100mm round push in floor drain to 50mm outlet
- * Push-in floor waste assembly for sheet vinyl flooring

Refer Full SPS Catalogue Pg 5.01 for details



SPS Push-in Sheet Vinyl Floor Waste 100mm

ASSEMBLY CODE: **V 100SSA4**

- 100mm push-in vinyl floor drain S/S grate and ring, brass body.
- * Push-in floor waste assembly for sheet vinyl flooring

Refer Full SPS Catalogue Pg 5.04 for details



SPS Cleanout 100mm PVC Body and Unifin

ASSEMBLY CODE: **LG87SPNAF**

- 100mm clear opening clean out S/S non slip
- PVC body with Unifin

Refer Full SPS Catalogue Pg 5.07 for details



SPS Round Push-in Cleanout 130mm

ASSEMBLY CODE: **R 130SCRN**

- 130mm round push-in 100mm PVC clean out S/S non slip
- High security screws also available

Refer Full SPS Catalogue Pg 7.01 for details



SPS Square Cleanout 130mm

ASSEMBLY CODE: **Q 130SCRN**

- 130mm square push-in 100mm PVC clean out S/S non slip
- High security screws also available

Refer Full SPS Catalogue Pg 7.03 for details



SPS Round Push-in Vinyl Floor Cleanout

ASSEMBLY CODE: **V 100SPNA**

- 100mm push-in vinyl floor cleanout non slip 135DIA S/S ring and cover
- High security screws also available

Refer Full SPS Catalogue Pg 7.05 for details



SPS Round Push-in Cleanout 150mm Outlet

ASSEMBLY CODE: **R 200SCR**

- 200/150mm round push-in to 150mm PVC clean out S/S ring and cover
- High security screws also available

Refer Full SPS Catalogue Pg 7.11 for details



SPS Round Heavy Duty Cleanout

ASSEMBLY CODE: **R200/150SCRN**

- 200mm round push in 150mm PVC clean out S/S non slip
- High security screws also available

Refer Full SPS Catalogue Pg 7.11 for details

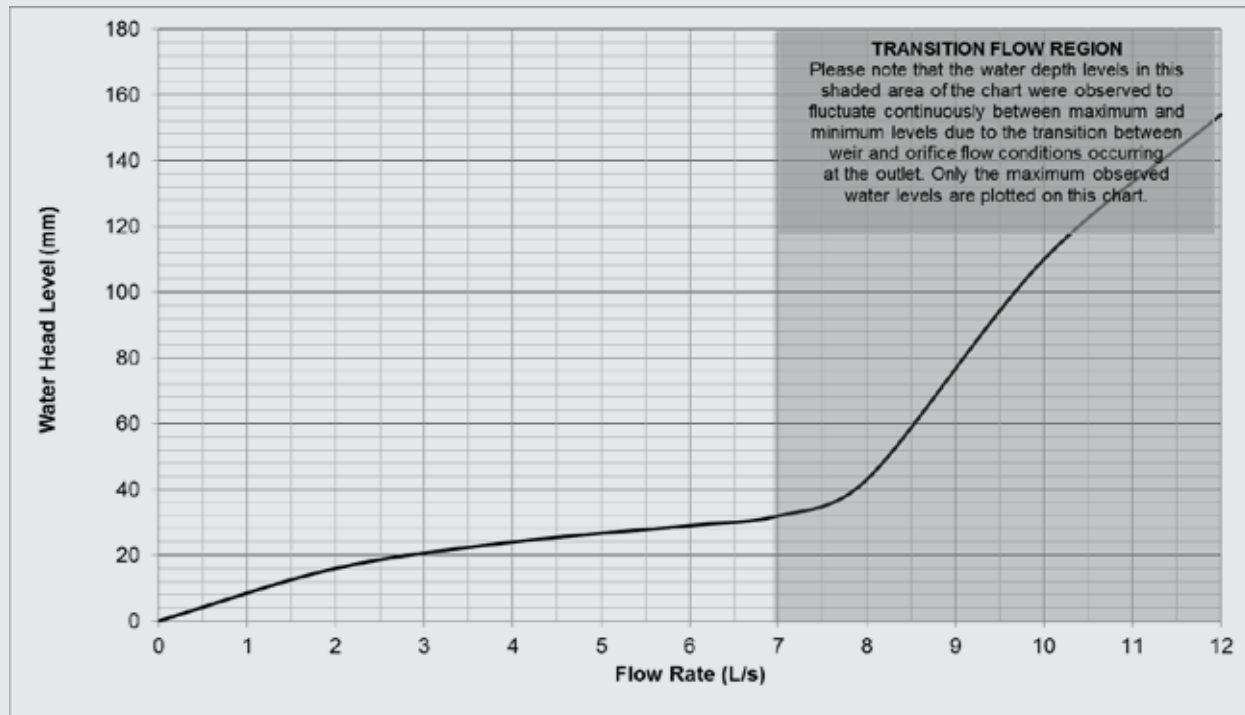
SPS Performance Certificate

Civil and General Distributors is able to offer a service of providing a Performance Certificate for each SPS product that customers are interested in – see example below.



Association of Hydraulic Services Consultants Australia – Research Foundation

Flow Characteristic Curve – TIA100F



Observation Comments:

- Flow rates from 0-7.0 L/s (30mm Head) produced a linear characteristic curve with stable water head levels.
- At 8.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow characterised by the water level fluctuating 10mm.
- At 10.0 – 14.0 L/s the flow surcharged with the water head fluctuating 30mm.
- The maximum flow limit to maintain weir flow conditions is 7.0 L/s.

I hereby certify that the test results presented on this outlet performance certificate are true and correct and were obtained using recognised AHSCA Gutter Outlet Testing procedures.

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