

SERIES DG

Louvred Face
Ceiling
Diffusers

PUBLICATION

DIFFUSERS 1

APRIL 2008

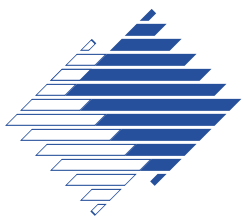


Features

- Attractive Louvred Face Design.
- 4 Frame/Border Styles.
- 9 Different Air Pattern Core Options.
- Spring Loaded Removable Core.
- Complementary Top & Side Entry Connection Boxes.
- Pressed and Extruded aluminium Construction.



GILBERTS



SERIES DG

Introduction

Gilberts DG Series of Louvred Face Diffusers offer a distinct new evolution on a popular design theme. Combining up-to-date styling and design technology to blend with modern architecture the DG Series provide an unrivalled blend of performance and aesthetics featuring a restyled improved blade profile to give a balanced visual appearance from all aspects and angles and to ensure a clean horizontal air distribution pattern.

Units are available in 1, 2, 3 or 4 way blow, in both square and rectangular forms and in a wide variety of sizes ranging from 150 x 150 neck size up to 600 x 600 in 75mm increments. (Where uniform core appearance is needed clip

on blanking plates are available to convert air patterns).

All Gilberts DG Units benefit from a robust spring loaded removable core assembly which allows easy access to dampers for initial balancing or cleaning and safety cords to firmly secure the core to the diffuser frame. In keeping with contemporary ceiling design the series is available with 4 specific frame border styles integrating operational flexibility by matching different popular ceiling types.

Standard Series Options:

- Type DGA** : Standard border suitable for both suspended and plaster ceiling applications.
- Type DGB** : Special border adapted for clip in ceiling grid applications.
- Type DGC** : Special border adapted for regular and drop in tile ceiling grids.
- Type DGD** : Narrow border option providing a higher capacity neck size suitable for suspended ceiling applications.

Further adaptations on these border frame platforms provides other distinct permutations allowing integration of the DG into almost any ceiling type, specification or design. For volume control the standard screwdriver operated opposed blade damper is available attached directly to the diffuser. Alternative plenum volume control options of a rotary damper, for top connection and quadrant or cord operated flap type damper for top/side connection can also be specified. Standard finish for all DG Series is a Polyester Powder White. Other colours and finishes are available on request.

Selection Procedure

Having established the position where terminals can be sited, refer to data showing core pattern details and select the suitable direction pattern required. Knowing the volume and throw for each diffuser in question then check :

- a) Recommended limit of volume per direction according to ceiling height (table 1) with throw of air required lying between the max and min values.
- b) Note sound level from performance data and check this recommendations shown on table .
- c) Determine the total pressure drop from performance data.

Table 1

Ceiling Height	Max vol per direction (each diffuser)	Cooling Differential Maximum
2.5m	0.090 m ³ /s	12°C
3.0m	0.200 m ³ /s	12°C
3.5m	0.350 m ³ /s	12°C

Area to be served	Recommended Maximum NC Levels
Sound Broadcasting Recording Studios, TV (Audience Studios)	15 - 20 20 - 25
Lecture Theatres, Cinemas, Concert Halls, Boardroom/Ex Offices Lounge, Conference Room, Court Room, Churches, Private Bedrooms	25 - 30
Operating Theatres, Hospital Wards, Staff Room, Class Rooms, Ballroom, Banquet Room, Library, Bank, Museum, Offices	30 - 40
Restaurants, Department Stores, Computer Suite, Washroom Toilet	35 - 40
Laundries, Kitchens, Swimming Pools, Sports Arena	40 - 45
Garage, Light Engineering Workshop	45 - 50
Heavy Engineering Workshop	50 - 65

Performance Data

The performance data tables provide information for cooling, ventilation and heating applications. They are intended to be aids to heating and air conditioning engineers.

References used :

Pressure : All pressures are in Pa (N/m²) TP = Total Pressure SP = Negative Static Pressure

Throw : The first figure is the throw that corresponds to 0.5 m/s, and the second figure corresponds to 0.25 m/s.

Sound : NC values are based on a room absorption of 8db, re 10⁻¹² watts and for one diffuser, with OBD Damper fully open.

Return Factors : If the unit is used as a return inlet, the performance data is obtained by applying the factors in the following manner : a) Sound : Add factor to the NC value listed

b) Negative static pressure : Multiply the factor by the total pressure listed in the tables.

Return Example : 150 x 150 DGA4 with 0.062 m³/s being returned through the unit

Return NC = 18 + 1 = 19

Return Pressure = (-SP) 20 x 1.1 = 22 Pa

Plenum Boxes : Where plenum boxes are attached to diffusers there will be an effect on both the noise and pressure drop values. Top connection boxes have little effect unless spigot connection velocities exceed 4 m/s. However for Side entry boxes an increase should be applied to the tables of 25% for supply pressure drops and 40% for extract.

The following spigot velocity figures indicate expected NC levels in the conditioned space and are based on a room absorption figure of 8db, re 10⁻¹² watts.

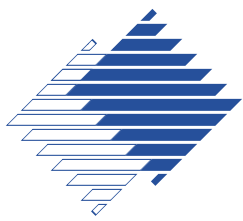
Spigot Velocity 3.0 m/s NC Level 30-35

Spigot Velocity 2.5 m/s NC Level 30

Spigot Velocity 2.3 m/s NC Level 25-30

Spigot Velocity 2.0 m/s NC Level 25

The performance data for all Gilberts products is derived using a Gilberts plenum design and specification. Performance cannot be guaranteed where alternative plenum designs are used.



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Facilities

REMOVABLE CORE (fig.1)

The Louvred Face Core on all DG Series units is spring loaded to allow easy removal from the frame for cleaning, damper balancing and adjustment. To remove the core simply identify its spring loaded side and gently push the core horizontally towards the outer frame. Upon reaching its maximum movement the clips or pins on the opposite side of the core will have disengaged from the frame allowing that side to lower for full removal.

Note : Although safety cords are fitted the core will remove sufficiently to clear the frame and lower but will remain safely secured to prevent it from falling.

The removable core facility also allows different core styles to interchange on site where necessary.

DAMPER CONTROL (fig.2)

The DG Series now offers a variety of alternative damper control choices. Standard Opposed Blade Dampers remain an option for all units with screwdriver operation. In addition, however, a Rotary Damper is also available for units with Top Connection Box (TCB) type plenum. The rotary damper benefits from a low depth profile and comprises of a hit and miss style circular sliding plate which can be adjusted using finger tabs from the damper face.

For top and side entry plenums quadrant and cord operated single blade flap type dampers can also be utilised or, for a more sophisticated form of volume control, Iris type dampers.

SAFETY CORD (fig.3)

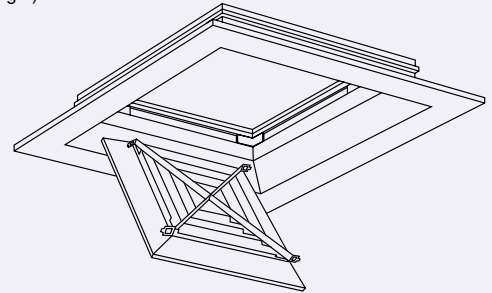
A standard feature on DG Series are the Nylon Safety Cords.

The cords which are approximately 150mm in length bind the removable core to the diffuser frame. A useful safety feature, the cords will allow core removal but will prevent the core from accidentally falling to the ground.

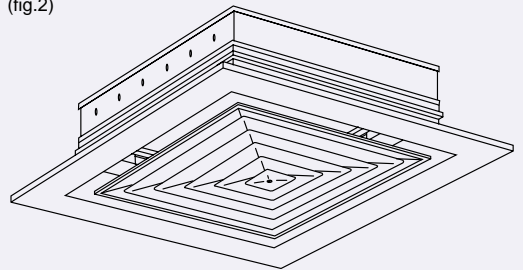
NON VISION COWL (fig.4)

For non-ducted installations DG Units can be fitted with a matt black non-visual cowl plate (Ref: NVC/DG) at the rear to prevent see through vision into the ceiling void.

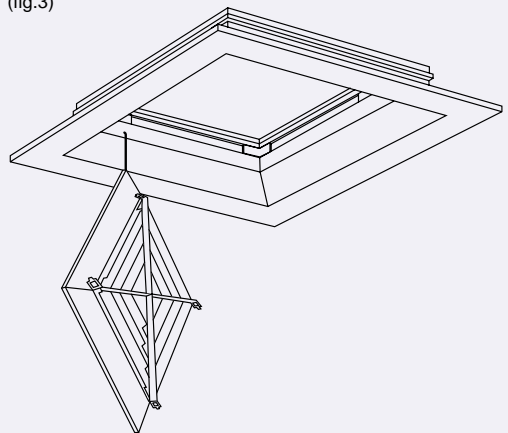
(fig.1)



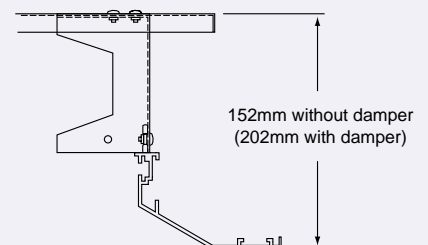
(fig.2)

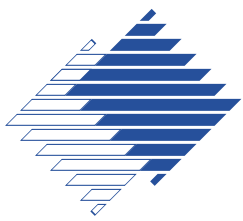


(fig.3)



(fig.4)



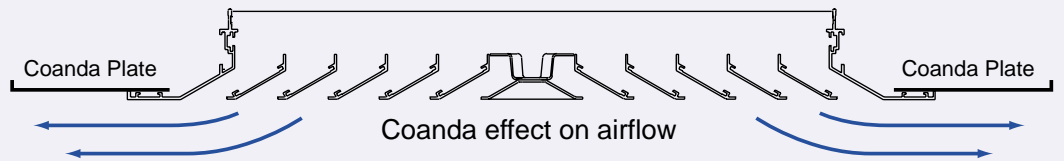


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Coanda Plate

Available to suit all square sizes the coanda plate fixes to the back of the face flange of the diffuser to create a ceiling effect where diffusers are mounted in free space such as on exposed ductwork. The coanda effect can be used to increase the throw of the diffuser in these applications by allowing the air to flow across the plate and travel further before dropping into the occupied zone.

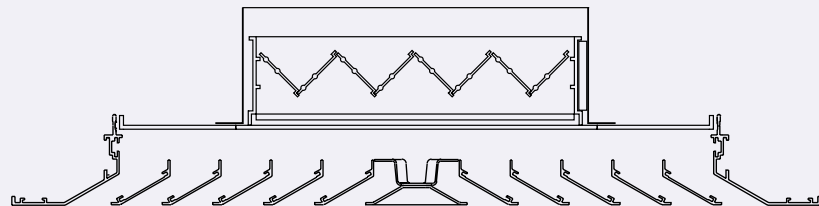
Standard Coanda width = List Size + 374mm



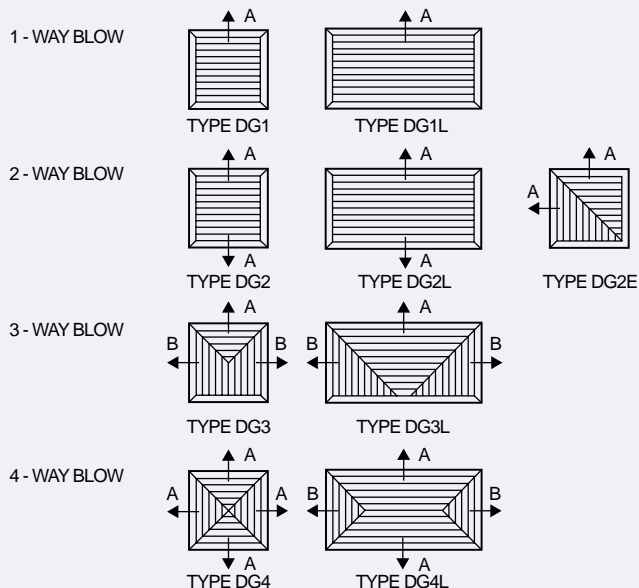
Neck Reducing Plate

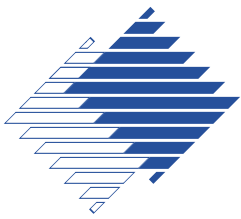
Neck reduction plates can be fitted to the rear of all square face diffusers and are designed to limit airflow through the diffuser to a smaller neck size. Typically they are used on standard 600 sq ceiling grid size diffusers allowing the tile replacement size to be used throughout an installation whilst matching capacity to the required volume.

If opposed blade dampers are used in conjunction with a neck reduction plate the damper is also downsized with the neck to save on cost.



Air Pattern Options

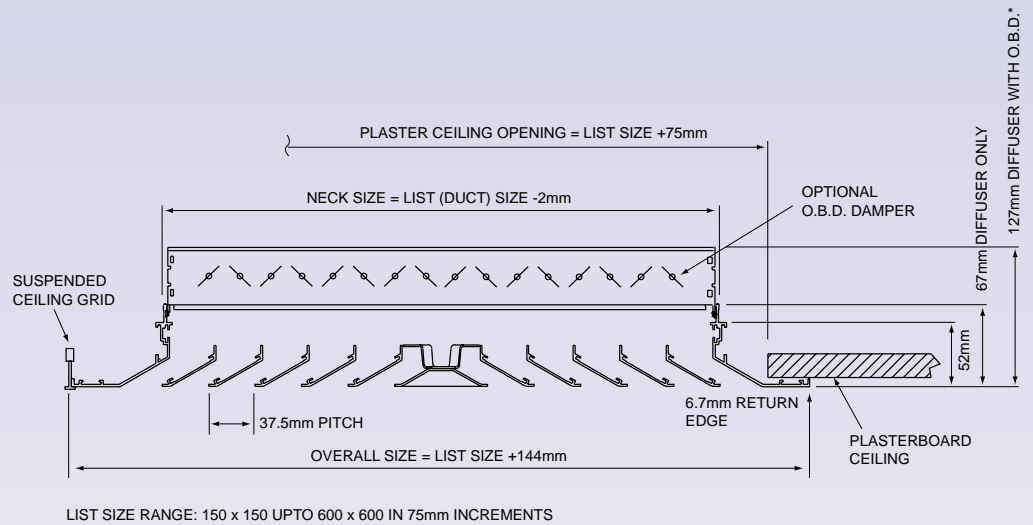




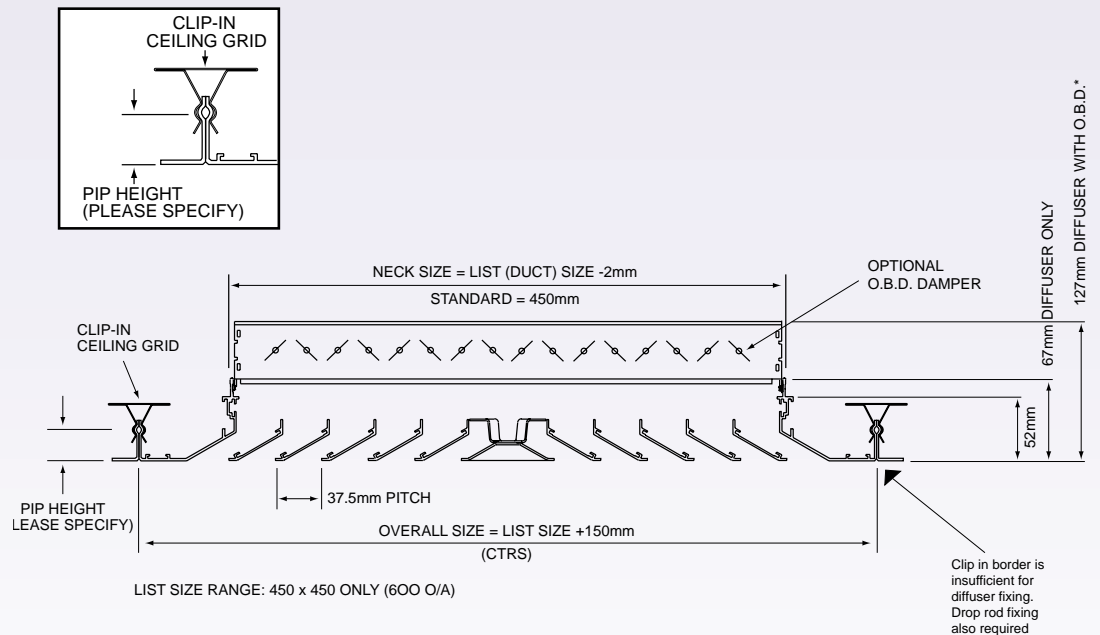
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Series DG

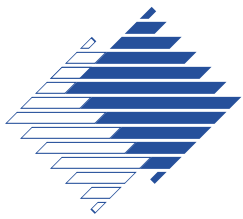
TYPE DGA Standard Border



TYPE DGB Clip in Border



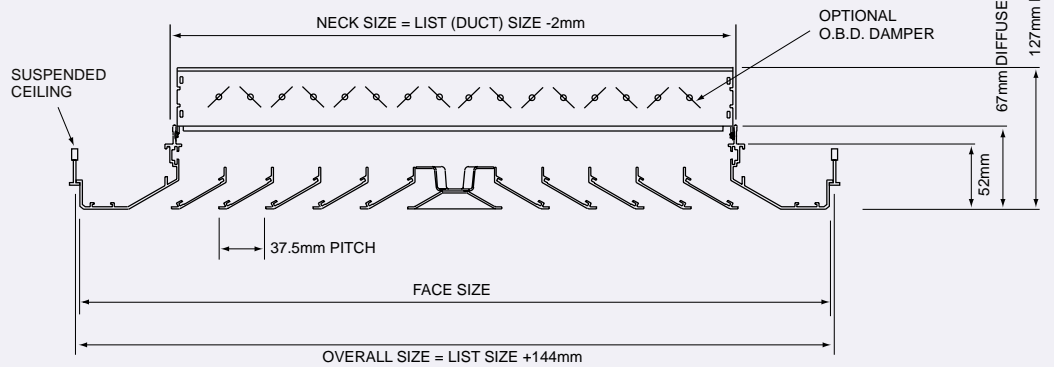
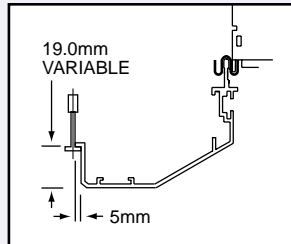
* Max depth - Depth may be lower depending on damper fitment. Please check where necessary



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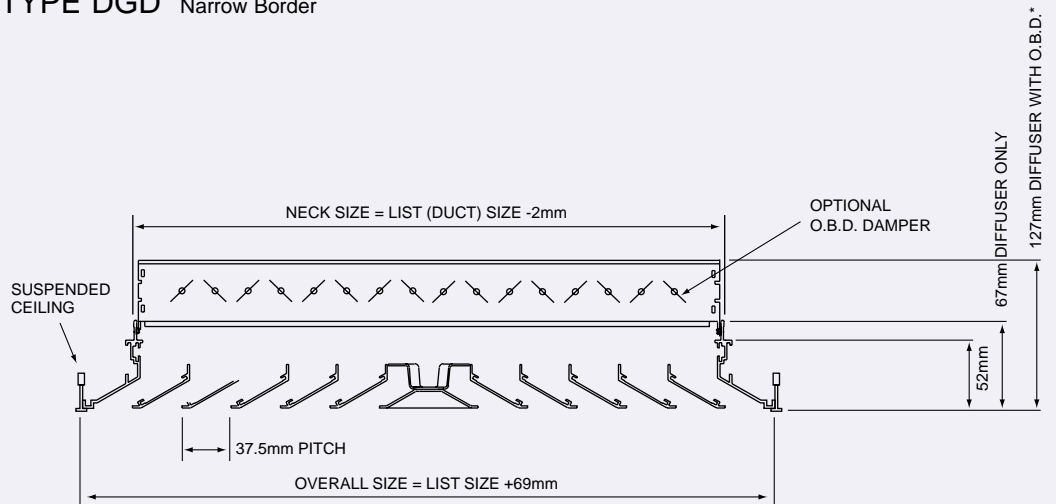
Series DG

TYPE DGC Tegular Border



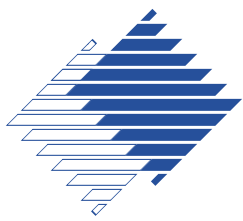
Overall Size Dims
 List Size 450sq = 594sq O/A (584sq Face Size)
 List Size 440sq = 584sq O/A (574sq Face Size)
 List Size 350sq = 494sq O/A (484sq Face Size)
 List Size 340sq = 484sq O/A (474sq Face Size)

TYPE DGD Narrow Border



LIST SIZE RANGE: 150 x 150 UPTO 600 x 600 IN 75mm INCREMENTS
 STANDARD SIZE: 525 x 525 (594 o/a)

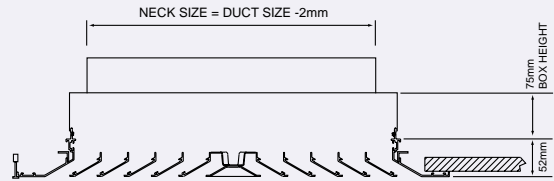
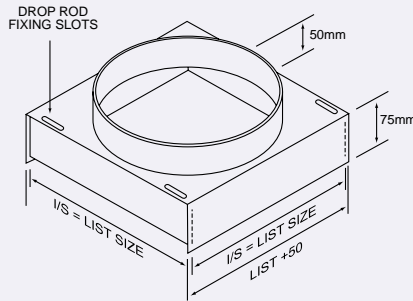
* Max depth - Depth may be lower depending on damper fitment. Please check where necessary



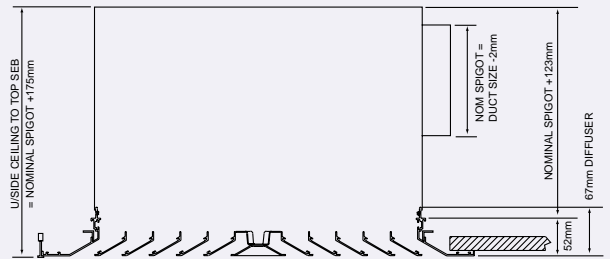
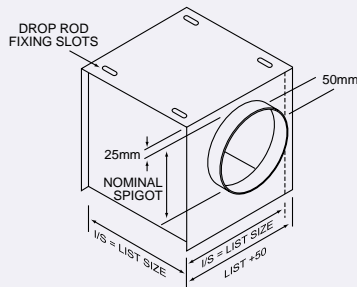
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Plenum & Connection Boxes

TYPE TCB: TOP CONNECTION BOX



TYPE SEB: SIDE ENTRY BOX

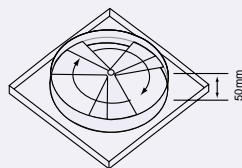


General Plenum Specification

0.7mm Galvanised or Zintec coated mild steel plenum. Spigot Construction: Standard size spigots use plastic clip-in spigots. Non standard a sealed screw in spigot.

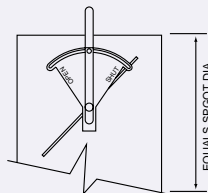
Plenum Volume Control

PLENUM TYPE TCB & SEB
ROTARY DAMPER - REF: DR

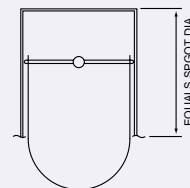


SIZE OPTIONS
150, 160, 200, 225
250, 300, 350, 400
& 450 Dia

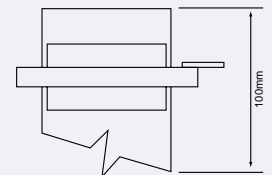
QUADRANT DAMPER - REF:DQ

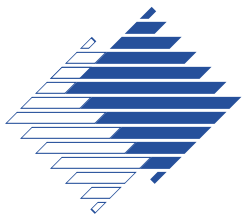


CORD OP DAMPER - REF:DC

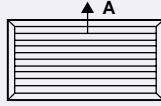


IRIS DAMPER - REF:DI



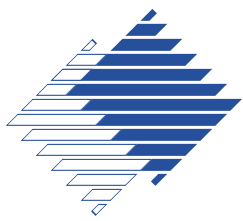


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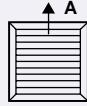


ONE-WAY BLOW Type DG1L

NECK SIZE AREA m ² RETURN - SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24
225 x 150 0.0337 (1.2) x T.P. SUPPLY N.C. + 0	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .052 B .052 -	A .06 B .06 -	A .068 B .068 -	A .076 B .076 -	A .084 B .084 -	A .092 B .092 -	A .10 B .10 -
300 x 150 0.045 (1.6) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .068 B .068 -	A .078 B .078 -	A .09 B .09 -	A .102 B .102 -	A .112 B .112 -	A .124 B .124 -	A .136 B .136 -
375 x 150 0.0562 (1.9) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .084 B .084 -	A .098 B .098 -	A .112 B .112 -	A .126 B .126 -	A .14 B .14 -	A .154 B .154 -	A .168 B .168 -
450 x 150 0.0675 (2.6) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .101 B .101 -	A .118 B .118 -	A .135 B .135 -	A .151 B .151 -	A .168 B .168 -	A .185 B .185 -	A .202 B .202 -
525 x 150 0.0787 (3.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .118 B .118 -	A .137 B .137 -	A .157 B .157 -	A .177 B .177 -	A .196 B .196 -	A .216 B .216 -	A .236 B .236 -
600 x 150 0.09 (4.0) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .135 -	A .157 B .157 -	A .18 B .18 -	A .202 B .202 -	A .225 B .225 -	A .247 B .247 -	A .27 B .27 -
300 x 225 0.0675 (1.4) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .10 B .10 -	A .118 B .118 -	A .135 B .135 -	A .151 B .151 -	A .168 B .168 -	A .185 B .185 -	A .202 B .202 -
375 x 225 0.0843 (1.6) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .126 B .126 -	A .147 B .147 -	A .168 B .168 -	A .189 B .189 -	A .21 B .21 -	A .231 B .231 -	A .252 B .252 -
450 x 225 0.101 (2.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .151 B .151 -	A .176 B .176 -	A .202 B .202 -	A .227 B .227 -	A .252 B .252 -	A .277 B .277 -	A .303 B .303 -
525 x 225 0.118 (2.2) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .177 B .177 -	A .206 B .206 -	A .236 B .236 -	A .265 B .265 -	A .295 B .295 -	A .324 B .324 -	A .354 B .354 -
600 x 225 0.135 (2.7) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .202 B .202 -	A .236 B .236 -	A .27 B .27 -	A .303 B .303 -	A .337 B .337 -	A .371 B .371 -	A .405 B .405 -
375 x 300 0.112 (1.6) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .168 B .168 -	A .196 B .196 -	A .224 B .224 -	A .252 B .252 -	A .28 B .28 -	A .308 B .308 -	A .336 B .336 -
450 x 300 0.135 (1.8) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .202 B .202 -	A .236 B .236 -	A .27 B .27 -	A .303 B .303 -	A .337 B .337 -	A .371 B .371 -	A .405 B .405 -
525 x 300 0.157 (2.0) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .235 B .235 -	A .274 B .274 -	A .314 B .314 -	A .353 B .353 -	A .392 B .392 -	A .431 B .431 -	A .471 B .471 -
600 x 300 0.18 (2.5) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .27 B .27 -	A .315 B .315 -	A .36 B .36 -	A .405 B .405 -	A .45 B .45 -	A .495 B .495 -	A .54 B .54 -
450 x 375 0.168 (2.0) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .252 B .252 -	A .294 B .294 -	A .336 B .336 -	A .378 B .378 -	A .42 B .42 -	A .462 B .462 -	A .504 B .504 -
525 x 375 0.196 (2.1) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .294 B .294 -	A .343 B .343 -	A .392 B .392 -	A .441 B .441 -	A .49 B .49 -	A .539 B .539 -	A .588 B .588 -
600 x 375 0.225 (2.5) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .337 B .337 -	A .393 B .393 -	A .45 B .45 -	A .506 B .506 -	A .562 B .562 -	A .618 B .618 -	A .675 B .675 -
525 x 450 0.236 (2.2) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .354 B .354 -	A .413 B .413 -	A .472 B .472 -	A .531 B .531 -	A .59 B .59 -	A .649 B .649 -	A .708 B .708 -
600 x 450 0.27 (2.4) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .405 B .405 -	A .472 B .472 -	A .54 B .54 -	A .607 B .607 -	A .675 B .675 -	A .742 B .742 -	A .81 B .81 -
600 x 525 0.315 (3.0) x T.P. SUPPLY N.C. + 7	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .472 B .472 -	A .551 B .551 -	A .63 B .63 -	A .708 B .708 -	A .787 B .787 -	A .866 B .866 -	A .945 B .945 -

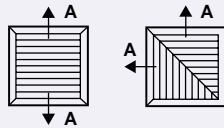


SERIES DG



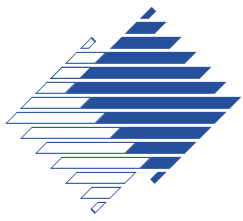
ONE- WAY BLOW Type DG1

NECK SIZE AREA m ² RETURN – SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24
150 x 150 0.0225 (1.1) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .034 B .034 –	A .04 B .04 –	A .045 B .045 –	A .051 B .051 –	A .056 B .056 – 15	A .062 B .062 – 18	A .067 B .067 – 20 3.3/6
225 x 225 0.05 (1.2) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .075 B .075 –	A .087 B .087 –	A .1 B .1 –	A .112 B .112 – 15	A .125 B .125 – 18	A .135 B .135 – 22	A .15 B .15 – 24 4.7/8
300 x 300 0.09 (1.3) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .135 –	A .157 B .157 –	A .18 B .18 – 15	A .202 B .202 – 18	A .225 B .225 – 21	A .247 B .247 – 24	A .27 B .27 – 27 5.4/9
375 x 375 0.14 (1.8) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .21 B .21 –	A .245 B .245 –	A .28 B .28 – 16	A .315 B .315 – 20	A .35 B .35 – 23	A .385 B .385 – 25	A .42 B .42 – 29 6/11
450 x 450 0.2025 (2.1) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .303 B .303 –	A .354 B .354 – 15	A .405 B .405 – 18	A .455 B .455 – 21	A .506 B .506 – 25	A .566 B .566 – 27	A .607 B .607 – 31 7/11.5
525 x 525 0.2756 (2.6) x T.P. SUPPLY N.C. + 8	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .413 B .413 –	A .482 B .482 – 16	A .55 B .55 – 20	A .62 B .62 – 23	A .689 B .689 – 27	A .758 B .758 – 30	A .826 B .826 – 33 7.5/13
600 x 600 0.36 (2.7) x T.P. SUPPLY N.C. + 9	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .54 B .54 – 15	A .63 B .63 – 18	A .72 B .72 – 21	A .81 B .81 – 25	A .9 B .9 – 28	A .99 B .99 – 30	A 1.08 B 1.08 – 34 8/14

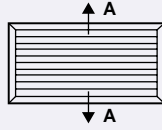


TWO- WAY BLOW Types DG2 and DG2E

NECK SIZE AREA m ² RETURN – SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24
150 x 150 0.0225 (1.1) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .034 B .017 –	A .04 B .02 –	A .045 B .022 –	A .051 B .025 –	A .056 B .028 – 15	A .062 B .031 – 18	A .067 B .033 – 20 3/4.6
225 x 225 0.05 (1.2) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .075 B .037 –	A .087 B .043 –	A .1 B .05 –	A .112 B .056 – 15	A .125 B .062 – 18	A .135 B .067 – 22	A .15 B .075 – 24 3.5/6
300 x 300 0.09 (1.3) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .067 –	A .157 B .078 –	A .18 B .09 – 15	A .202 B .101 – 18	A .225 B .112 – 21	A .247 B .123 – 24	A .27 B .135 – 27 4.4/7.2
375 x 375 0.14 (1.8) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .21 B .105 –	A .245 B .122 –	A .28 B .14 – 16	A .315 B .157 – 20	A .35 B .175 – 23	A .385 B .192 – 25	A .42 B .21 – 29 5/9
450 x 450 0.2025 (2.1) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .303 B .151 –	A .354 B .177 – 15	A .405 B .202 – 18	A .455 B .227 – 21	A .506 B .253 – 25	A .566 B .278 – 27	A .607 B .303 – 31 5.2/9.4
525 x 525 0.2756 (2.6) x T.P. SUPPLY N.C. + 8	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .413 B .206 –	A .482 B .241 – 16	A .55 B .275 – 20	A .62 B .31 – 23	A .689 B .344 – 27	A .758 B .379 – 30	A .826 B .413 – 33 6/11
600 x 600 0.36 (2.7) x T.P. SUPPLY N.C. + 9	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .54 B .27 – 15	A .63 B .315 – 18	A .72 B .36 – 21	A .81 B .405 – 25	A .9 B .45 – 28	A .99 B .495 – 30	A 1.08 B 0.54 – 34 6.7/11.4

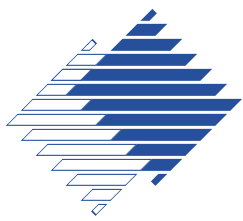


SERIES DG

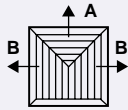


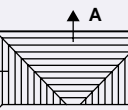
TWO- WAY BLOW Type DG2L

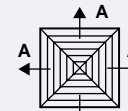
NECK SIZE AREA m ² RETURN - SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24
225 x 150 0.0337 (1.2) x T.P. SUPPLY N.C. + 0	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .052 B .026 -	A .06 B .03 -	A .068 B .034 -	A .076 B .038 -	A .084 B .042 -	A .092 B .046 -	A .10 B .05 -
300 x 150 0.045 (1.6) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .068 B .034 -	A .078 B .039 -	A .09 B .045 -	A .102 B .051 -	A .112 B .056 -	A .124 B .062 -	A .136 B .068 -
375 x 150 0.0562 (1.9) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .084 B .042 -	A .098 B .049 -	A .112 B .056 -	A .126 B .063 -	A .14 B .07 -	A .154 B .077 -	A .168 B .084 -
450 x 150 0.0675 (2.6) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .101 B .050 -	A .118 B .059 -	A .135 B .067 -	A .151 B .075 -	A .168 B .084 -	A .185 B .092 -	A .202 B .101 -
525 x 150 0.0787 (3.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .118 B .059 -	A .137 B .068 -	A .157 B .078 -	A .177 B .088 -	A .196 B .098 -	A .216 B .108 -	A .236 B .118 -
600 x 150 0.09 (4.0) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .067 -	A .157 B .078 -	A .18 B .09 -	A .202 B .101 -	A .225 B .112 -	A .247 B .123 -	A .27 B .135 -
300 x 225 0.0675 (1.4) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .10 B .05 -	A .118 B .059 -	A .135 B .067 -	A .151 B .075 -	A .168 B .084 -	A .185 B .092 -	A .202 B .101 -
375 x 225 0.0843 (1.6) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .126 B .063 -	A .147 B .073 -	A .168 B .084 -	A .189 B .094 -	A .21 B .11 -	A .231 B .115 -	A .252 B .126 -
450 x 225 0.101 (2.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .151 B .075 -	A .176 B .088 -	A .202 B .101 -	A .227 B .113 -	A .252 B .126 -	A .277 B .139 -	A .303 B .151 -
525 x 225 0.118 (2.2) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .177 B .088 -	A .206 B .103 -	A .236 B .118 -	A .265 B .132 -	A .295 B .147 -	A .324 B .162 -	A .354 B .177 -
600 x 225 0.135 (2.7) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .202 B .101 -	A .236 B .118 -	A .27 B .135 -	A .303 B .151 -	A .337 B .168 -	A .371 B .185 -	A .405 B .202 -
375 x 300 0.112 (1.8) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .168 B .084 -	A .196 B .098 -	A .224 B .112 -	A .252 B .126 -	A .28 B .14 -	A .308 B .154 -	A .336 B .168 -
450 x 300 0.135 (1.8) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .202 B .101 -	A .236 B .118 -	A .27 B .135 -	A .303 B .151 -	A .337 B .168 -	A .371 B .185 -	A .405 B .202 -
525 x 300 0.157 (2.0) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .235 B .118 -	A .274 B .137 -	A .314 B .157 -	A .353 B .177 -	A .392 B .196 -	A .431 B .216 -	A .471 B .236 -
600 x 300 0.18 (2.5) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .27 B .135 -	A .315 B .157 -	A .36 B .18 -	A .405 B .202 -	A .45 B .225 -	A .495 B .247 -	A .54 B .27 -
450 x 375 0.168 (2.0) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .252 B .126 -	A .294 B .147 -	A .336 B .168 -	A .378 B .189 -	A .42 B .21 -	A .462 B .231 -	A .504 B .252 -
525 x 375 0.196 (2.1) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .294 B .147 -	A .343 B .171 -	A .392 B .196 -	A .441 B .220 -	A .49 B .245 -	A .539 B .269 -	A .588 B .294 -
600 x 375 0.225 (2.5) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .337 B .168 -	A .393 B .196 -	A .45 B .226 -	A .506 B .253 -	A .562 B .281 -	A .618 B .309 -	A .675 B .337 -
525 x 450 0.236 (2.2) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .354 B .177 -	A .413 B .206 -	A .472 B .236 -	A .531 B .265 -	A .59 B .295 -	A .649 B .324 -	A .708 B .354 -
600 x 450 0.27 (2.4) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .405 B .202 -	A .472 B .236 -	A .54 B .27 -	A .607 B .303 -	A .675 B .337 -	A .742 B .371 -	A .81 B .405 -
600 x 525 0.315 (3.0) x T.P. SUPPLY N.C. + 7	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .472 B .236 -	A .551 B .275 -	A .63 B .315 -	A .708 B .354 -	A .787 B .393 -	A .866 B .433 -	A .945 B .472 -

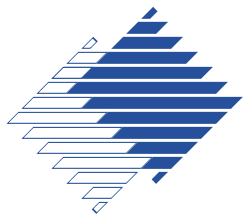


SERIES DG

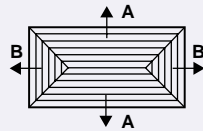
		THREE-WAY BLOW Type DG3								
NECK SIZE AREA m ² RETURN - SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24		
150 x 150 0.0225 (1.1) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .034 B .008 .013 - - 1/2 , 1.2/3	A .04 B .01 - .015 - - 1/2.1 , 1.4/3	A .045 B .011 - .017 - - 1.3/2.2 , 1.6/3	A .051 B .013 - .019 - - 1.4/2.3 , 1.7/3.4	A .056 B .014 - .021 15 1.6/2.4 , 2/3.7	A .062 B .016 - .023 18 1.6/2.6 , 2/4	A .067 B .017 - .024 20 1.7/2.9 , 2/4		
225 x 225 0.05 (1.2) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .075 B .019 - .028 1.3/2.4 , 2/3.4	A .087 B .021 - .033 1.4/2.6 , 2/3.7	A .1 B .024 - .038 1.6/2.8 , 2/4	A .112 B .026 - .043 15 1.7/3 , 2.2/4.2	A .125 B .03 - .047 18 1.8/3 , 2.5/4.4	A .135 B .034 - .050 22 1.8/3.1 , 3/4.6	A .15 B .038 - .056 24 1.8/3.3 , 3/4.8		
300 x 300 0.09 (1.3) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .033 - .051 1.5/2.6 , 2/4	A .157 B .04 - .058 1.6/3 , 2/4.1	A .18 B .045 - .067 15 1.8/3.2 , 2/4.2	A .202 B .05 - .076 18 1.9/3.5 , 2.5/5	A .225 B .057 - .084 21 2.0/3.8 , 2.8/5.2	A .247 B .063 - .092 24 2.1/4.1 , 2.9/5.8	A .27 B .069 - .097 27 2.2/4.4 , 3.0/6.2		
375 x 375 0.14 (1.8) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .21 B .052 - .079 1.7/3 , 2.8/4.8	A .245 B .062 - .091 2/3.5 , 3/5.2	A .28 B .072 - .104 16 2/3.7 , 3.2/5.8	A .315 B .08 - .117 20 2/4 , 3.6/6.2	A .35 B .088 - .131 23 2.4/4.5 , 4/6.5	A .385 B .097 - .144 25 2.6/4.8 , 4.1/7	A .42 B .105 - .157 29 2.8/5.2 , 4.1/7		
450 x 450 0.2025 (2.1) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .303 B .077 - .113 2/3.8 , 3/5.2	A .354 B .09 - .132 15 2/3.9 , 3.2/5.6	A .405 B .104 - .150 18 2.2/4 , 3.5/6	A .455 B .116 - .169 21 2.5/4.5 , 4/6.5	A .506 B .129 - .188 25 2.8/5.2 , 4.1/7	A .556 B .141 - .207 27 3.0/6.2 , 4.1/7	A .607 B .155 - .226 31 3.2/6.6 , 4.5/7.5		
525 x 525 0.2756 (2.6) x T.P. SUPPLY N.C. + 8	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .413 B .106 - .153 2.2/4.2 , 3.2/6	A .482 B .124 - .179 16 2.3/4.5 , 3.8/6.6	A .55 B .138 - .206 20 2.6/5 , 4/6.7	A .62 B .154 - .233 23 2.8/5.5 , 4.2/7	A .689 B .174 - .257 27 3.0/6.2 , 4.1/7	A .758 B .19 - .284 30 3.2/6.6 , 4.5/7.5	A .826 B .208 - .309 33 3.4/7.4 , 4.8/8.6		
600 x 600 0.36 (2.7) x T.P. SUPPLY N.C. + 9	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .54 B .14 - .200 15 2.6/4.7 , 4/6.5	A .63 B .169 - .230 18 3/5 , 4.7	A .72 B .185 - .267 21 3/5.5 , 4.7/2	A .81 B .20 - .305 25 3.5/6 , 4.5/8	A .9 B .228 - .336 28 3.8/6.5 , 5/8.5	A .99 B .24 - .375 30 4.1/7.2 , 4.2/7	A 1.08 B .274 - .403 34 4.4/7.8 , 5.2/9.5		

		THREE-WAY BLOW Type DG3L								
NECK SIZE AREA m ² RETURN - SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24		
300 x 150 0.045 (1.6) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .068 B .034 - .017 2/3 , 2/3	A .078 B .039 - .02 2.1/3.3 , 2.1/3.3	A .09 B .045 - .022 11 2.3/3.6 , 2.3/3.6	A .102 B .051 - .025 15 2.4/4 , 2.4/4	A .112 B .056 - .028 18 2.5/4.2 , 2.5/4.2	A .124 B .062 - .031 21 2.7/4.4 , 2.7/4.4	A .136 B .068 - .034 24 3/4.6 , 3/4.6		
450 x 225 0.101 (2.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .151 B .077 - .037 2.4/4 , 2.4/4	A .176 B .090 - .043 2.7/4.6 , 2.7/4.6	A .202 B .101 - .05 15 3/5 , 3/5	A .227 B .113 - .056 18 3/5.3 , 3/5.3	A .252 B .126 - .063 22 3.2/5.6 , 3.2/5.6	A .277 B .138 - .069 26 3.3/5.8 , 3.3/5.8	A .303 B .151 - .075 28 3.5/6 , 3.5/6		
600 x 300 0.18 (2.5) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .27 B .135 - .067 3.1/5 , 2.9/5	A .315 B .157 - .078 3.4/5.6 , 3.2/5.4	A .36 B .18 - .09 18 3.7/7 , 3.5/6.9	A .405 B .202 - .101 21 3.9/6.4 , 3.7/6.2	A .45 B .225 - .112 25 4.2/6.7 , 4/6.5	A .495 B .247 - .123 29 4.4/7.2 , 4.2/7	A .54 B .27 - .135 31 4.6/7.4 , 4.4/7.2		

		FOUR-WAY BLOW Type DG4								
NECK SIZE AREA m ² RETURN - SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24		
150 x 150 0.0225 (1.1) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .034 B .008 - - 1/2	A .04 B .01 - - 1.1/2.1	A .045 B .011 - - 1.3/2.2	A .051 B .013 - - 1.4/2.3	A .056 B .014 - .15 1.6/2.4	A .062 B .016 - .18 1.6/2.6	A .067 B .017 - .20 1.7/2.9		
225 x 225 0.05 (1.2) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .075 B .019 - - 1.3/2.4	A .087 B .021 - - 1.4/2.6	A .1 B .025 - - 1.6/2.8	A .112 B .026 - .15 1.7/3	A .125 B .031 - .18 1.8/3	A .135 B .034 - .22 1.8/3.1	A .15 B .038 - .24 1.8/3.3		
300 x 300 0.09 (1.3) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .033 - - 1.5/2.6	A .157 B .04 - .1.6/3	A .18 B .045 - .15 1.8/3.2	A .202 B .05 - .18 1.9/3.5	A .225 B .057 - .21 2.0/3.8	A .247 B .063 - .24 2/4	A .27 B .069 - .27 2.2/4		
375 x 375 0.14 (1.8) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .21 B .052 - - 1.7/3	A .245 B .062 - - 2/3.5	A .28 B .072 - .16 2/3.7	A .315 B .08 - .20 2/4	A .35 B .088 - .23 2.4/4.3	A .385 B .097 - .25 2.4/4.5	A .42 B .105 - .29 2.6/4.8		
450 x 450 0.2025 (2.1) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .303 B .077 - - 2/3.8	A .354 B .09 - .15 2/3.9	A .405 B .104 - .18 2.2/4	A .455 B .116 - .21 2.5/4.5	A .506 B .129 - .25 2.8/5.2	A .556 B .141 - .27 2.8/5.2	A .607 B .155 - .31 3/5.5		
525 x 525 0.2756 (2.6) x T.P. SUPPLY N.C. + 8	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .413 B .106 - - 2.2/4.2	A .482 B .124 - .16 2.3/4.5	A .55 B .138 - .20 2.6/5	A .62 B .154 - .23 2.8/5.5	A .689 B .174 - .27 3/6	A .758 B .19 - .30 3/6	A .826 B .208 - .33 3.2/6		
600 x 600 0.36 (2.7) x T.P. SUPPLY N.C. + 9	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .54 B .14 - .15 2.6/4.7	A .63 B .169 - .18 3/5	A .72 B .185 - .21 3/5.5	A .81 B .20 - .25 3.5/6	A .9 B .228 - .28 3.8/6.5	A .99 B .24 - .30 4/6.8	A 1.08 B .274 - .34 4/7		

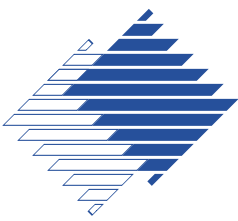


SERIES DG



FOUR- WAY BLOW Type DG4L

NECK SIZE AREA m ² RETURN – SP RETURN N.C.	NECK VEL m/s TOTAL PRESSURE Pa	1.5 6	1.75 8	2.0 11	2.25 14	2.5 17	2.75 20	3.0 24
225 x 150 0.0337 (1.2) x T.P. SUPPLY N.C. + 0	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .052 B .018 – .008	A .06 B .02 – .01	A .068 B .023 10 .011	A .076 B .025 14 .013	A .084 B .028 17 .014	A .092 B .03 20 .016	A .10 B .033 23 .017
300 x 150 0.045 (1.6) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .068 B .026 – .008	A .078 B .029 – .01	A .09 B .034 11 .011	A .102 B .038 15 .013	A .112 B .042 18 .014	A .124 B .046 21 .016	A .136 B .051 24 .017
375 x 150 0.0562 (1.9) x T.P. SUPPLY N.C. + 1	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .084 B .034 – .008	A .098 B .039 – .01	A .112 B .045 12 .011	A .126 B .05 15 .013	A .14 B .056 19 .014	A .154 B .061 23 .016	A .168 B .067 25 .017
450 x 150 0.0675 (2.3) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .101 B .042 – .008	A .118 B .049 – .01	A .135 B .056 13 .011	A .151 B .062 16 .013	A .168 B .07 20 .014	A .185 B .076 24 .016	A .202 B .085 26 .017
525 x 150 0.0787 (3.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .118 B .051 – .008	A .137 B .058 – .01	A .157 B .067 13 .011	A .177 B .075 16 .013	A .196 B .084 20 .014	A .216 B .092 24 .016	A .236 B .101 26 .017
600 x 150 0.09 (4.0) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .135 B .059 – .008	A .157 B .068 – .01	A .18 B .079 14 .011	A .202 B .088 17 .013	A .225 B .098 21 .014	A .247 B .107 25 .016	A .27 B .119 27 .017
300 x 225 0.0675 (1.4) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .10 B .031 – .019	A .118 B .038 – .021	A .135 B .043 13 .024	A .151 B .049 16 .026	A .168 B .054 20 .03	A .185 B .058 24 .034	A .202 B .063 26 .038
375 x 225 0.0843 (1.6) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .126 B .044 – .019	A .147 B .052 – .021	A .168 B .06 14 .024	A .189 B .068 17 .026	A .21 B .075 21 .03	A .231 B .081 25 .034	A .252 B .088 27 .038
450 x 225 0.101 (2.0) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .151 B .056 – .019	A .176 B .067 – .021	A .202 B .077 15 .024	A .227 B .087 18 .026	A .252 B .096 22 .03	A .277 B .104 26 .034	A .303 B .113 28 .038
525 x 225 0.118 (2.2) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .177 B .069 – .019	A .206 B .082 – .021	A .236 B .094 15 .024	A .265 B .106 18 .026	A .295 B .117 22 .03	A .324 B .128 26 .034	A .354 B .139 28 .038
600 x 225 0.135 (2.7) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .202 B .082 – .019	A .236 B .097 – .021	A .27 B .111 16 .024	A .303 B .125 19 .026	A .337 B .138 23 .03	A .371 B .151 27 .034	A .405 B .164 29 .038
375 x 300 0.112 (1.6) x T.P. SUPPLY N.C. + 2	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .168 B .051 – .033	A .196 B .058 – .04	A .224 B .067 16 .045	A .252 B .076 19 .05	A .28 B .083 23 .057	A .308 B .091 27 .063	A .336 B .099 29 .069
450 x 300 0.135 (1.8) x T.P. SUPPLY N.C. + 3	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .202 B .068 – .033	A .236 B .078 – .04	A .27 B .09 17 .045	A .303 B .101 20 .05	A .337 B .111 24 .057	A .371 B .122 28 .063	A .405 B .133 30 .069
525 x 300 0.157 (2.0) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .235 B .084 – .033	A .274 B .097 – .04	A .314 B .112 17 .045	A .353 B .126 20 .05	A .392 B .139 24 .057	A .431 B .152 28 .063	A .471 B .166 30 .069
600 x 300 0.18 (2.5) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .27 B .102 – .033	A .315 B .117 – .04	A .36 B .135 18 .045	A .405 B .152 21 .05	A .45 B .168 25 .057	A .495 B .184 29 .063	A .54 B .201 31 .069
450 x 375 0.168 (2.0) x T.P. SUPPLY N.C. + 4	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .252 B .074 – .052	A .294 B .085 – .062	A .336 B .096 18 .072	A .378 B .109 21 .08	A .42 B .122 25 .088	A .462 B .134 29 .097	A .504 B .147 31 .105
525 x 375 0.196 (2.1) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .294 B .095 – .052	A .343 B .109 – .062	A .392 B .124 18 .072	A .441 B .14 21 .08	A .49 B .157 25 .088	A .539 B .172 29 .097	A .588 B .189 31 .105
600 x 375 0.225 (2.5) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .337 B .116 10 .052	A .393 B .134 14 .062	A .45 B .153 19 .072	A .506 B .173 22 .08	A .562 B .193 26 .088	A .618 B .212 30 .097	A .675 B .232 32 .105
525 x 450 0.236 (2.2) x T.P. SUPPLY N.C. + 5	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .354 B .1 10 .077	A .413 B .116 14 .09	A .472 B .132 19 .104	A .531 B .149 22 .116	A .59 B .166 26 .129	A .649 B .183 30 .141	A .708 B .199 32 .155
600 x 450 0.27 (2.4) x T.P. SUPPLY N.C. + 6	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .405 B .125 11 .077	A .472 B .146 15 .09	A .54 B .166 20 .104	A .607 B .187 23 .116	A .675 B .208 27 .129	A .742 B .23 31 .141	A .81 B .25 33 .155
600 x 525 0.315 (3.0) x T.P. SUPPLY N.C. + 7	TOTAL m ³ /s m ³ /s PER SIDE N.C. LEVEL THROW m	A .472 B .13 12 .106	A .551 B .151 16 .124	A .63 B .177 21 .138	A .708 B .2 24 .154	A .787 B .219 28 .174	A .866 B .243 32 .19	A .945 B .264 34 .208



SERIES DG

Ordering Specification

Diffuser

SERIES: DGA - DGD	DGB	4	450 x 450	PIP 25	SB	P1	NRP 150 x 150	CP	FM	DO/BB	PPC RAL 9010 20% GLOSS (STANDARD FINISH)	15
AIR PATTERN: 1, 1L, 1S, 2, 2S, 2L, 2E, 3, 3L, 4, 4L												
LIST SIZE mm (Neck)												
PIP HEIGHT (mm) (DGB only)												
SUPPORT BRACKETS.....SB												
BLANKING PLATE OPTIONS: P1, P2, P2E, P3 (P + way blow requirements)												
NECK REDUCTION PLATE (NRP + SIZE)												
COANDA PLATES.....CP												
FILTER MEDIA.....FM												
FACE DAMPER OPTIONS: Opposed Blade (Std).....DO For Matt Black finish on damper add ref. BB ie: DO/BB or DFBB												
FINISH (Please Specify)												
NUMBER REQUIRED												

LIST SIZE RANGE

Type	DGA	150 x 150 up to
	DGC	600 x 600
	DGD	in 75mm
		increments
Type	DGB	450 x 450 only (600 O/A)

FIXING

Diffuser only (solid duct connection):
Drill & rivet through diffuser neck
Diffuser with Plenum: (flexible duct
connection)
Standard support is via drop rods
(by others) to slots on diffuser
plenum

FINISH

Standard Finish:
Standard finish for all units is a PPC
White RAL 9010 20% gloss.
Special Finish:
PPC to stock BS or RAL colour.
Stove Enamel to any BS or RAL colour.

Dampers: Mill Finish Aluminium or
Galvanised Steel

SUPPORT BRACKETS

Fitted to diffuser for drop rod fixing on
units without plenum connection box.

BLANKING PLATES

Clip on quarter core blanking available
to modify air pattern on 4 way diffuser:
P1 = 4 Way Down to 1 Way
P2 = 4 Way Down to 2 Way
P2E = 4 Way Down to 2 Way corner
P3 = 4 Way Down to 3 Way

NECK REDUCTION PLATES
Fitted to diffuser neck to reduce inlet
size and maintain diffuser performance.

COANDA PLATES

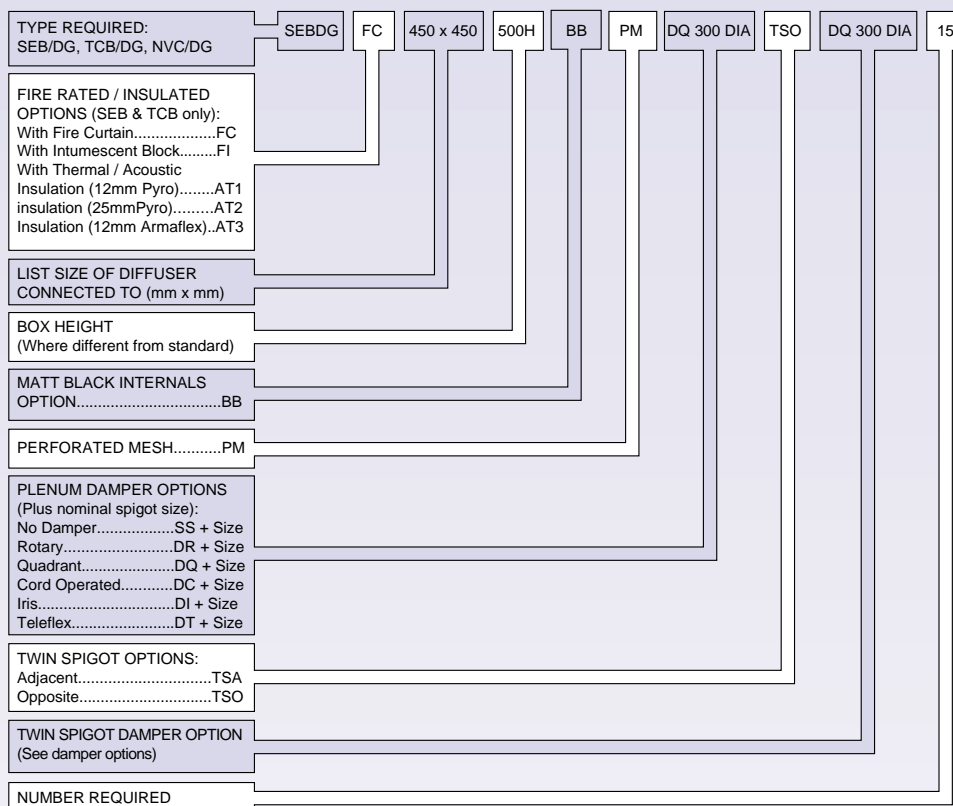
Fitted to diffuser border to maintain
ceiling effect.



SERIES DG

Ordering Specification

Plenum



GENERAL SPECIFICATION
0.7mm Galvanised or Zintec coated mild steel plenum. Spigot Construction: Standard size spigots use plastic clip-in spigots. Non standard a sealed screw in spigot.

PLENUM FITTING
Plenum boxes are typically supplied loose, however some diffuser models, for design and handling purposes, may be supplied with the plenum factory fitted. The popular 450sq unit is typically supplied with the box attached

FIRE RATED PLENUM OPTION
Fire Curtain - (FC) : Plenum fitted with curtain fire damper
Intumescent - (FI) : Plenum fitted with intumescent fire damper.
(see fire rated plenum datasheet for details).

THERMAL/ACOUSTIC INSULATION
Plenum box fully lined with 12 or 25mm black pyrosorb thermal & acoustic lining or 12mm Armaflex lining.

PERFORATED MESH
Plenum fitted internally with 50% perforated equalising mesh.

Contact

GILBERTS

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