# OPERATORS MANUAL

model

# PRO GOLF DEMOUNT

PGDM400
PGDM600
PGDM800
PGDM1000

CLEVELAND ALLIANCES LTD
INDUSTRY AGRICULTURE AMENITY

**For AMC180 & 400 Rate controllers see other manuals on our website**

**For WGF Shrouded booms see other manuals on our website**

**Disclaimer:**

**Cleveland Alliances Ltd accept no liability for damage caused to the machine or the environment or persons through operation or misuse of the machine. The operator must be competent, trained, and have the appropriate certification.**

**DO NOT USE THIS MACHINE UNLESS YOU HAVE BEEN TRAINED TO DO SO.**


For technical support and spare parts assistance call 01361883418

Email us on info@clevelandalliances.com

**Cleveland Alliances Ltd**

**Station Road, Duns, Berwickshire, TD113HS**

Thank you for purchasing your Cleveland Gambetti Sprayer.  Here are the do's and don't of operation and how to keep spraying without any hassles.

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Spraying is a delicate operation and involves the risk of contamination of people, animals and the environment. For this reason the functionality of all machine components must be carefully ensured. - The operator is always the most exposed person to the used chemical products and he/she must always adopt all the necessary measures for his/ her personal safety at work. Refer to the danger indications on the labels of the products used. - Always work in the correct weather conditions and follow the weather forecasts for the entire period of application. - Dose the product to be poured into the tank correctly. - Make sure that the chemical substances used are compatible with the construction materials of the machine. - Never leave chemical substances on the tank for more than a few hours. - Carefully follow the regulations concerning the possession and use of plant protection products and make sure that people and animals cannot access them. - After each use carefully wash the containers of the mix and the dosing tools that have been used. - Do not use the machine without hand washing tank or if it is not full. - The machine should be cleaned in the same place where it is filled, i.e. an area where the water can be collected in a disposal manhole. - Do not discharge the mixing residues to the watercourses, sewers and public areas.

# FITTING TO THE TRUCK

**NEVER WORK ON THE MACHINE WHILST THE ENGINE IS RUNNING**

***1.*** Connect the machine to the lower links onto the truck body using the jacking handles to adjust the height. DO NOT PUT FINGERS INTO THE PIN HOLES WHEN ALIGNING THE SPRAYER TO THE TRUCK. Connect the two rear pins and then connect the centre front pin to the tipping ram. Make sure all lynch pins / R pins are in place

2. When the machine is connected to the truck check the area is clear and lift the Sprayer using the tipping ram. The connect the hydraulic pump hoses to the hydraulic service on the truck. The engine should NOT be running when doing this.

3. Connect the electrical cables to the control boxes.

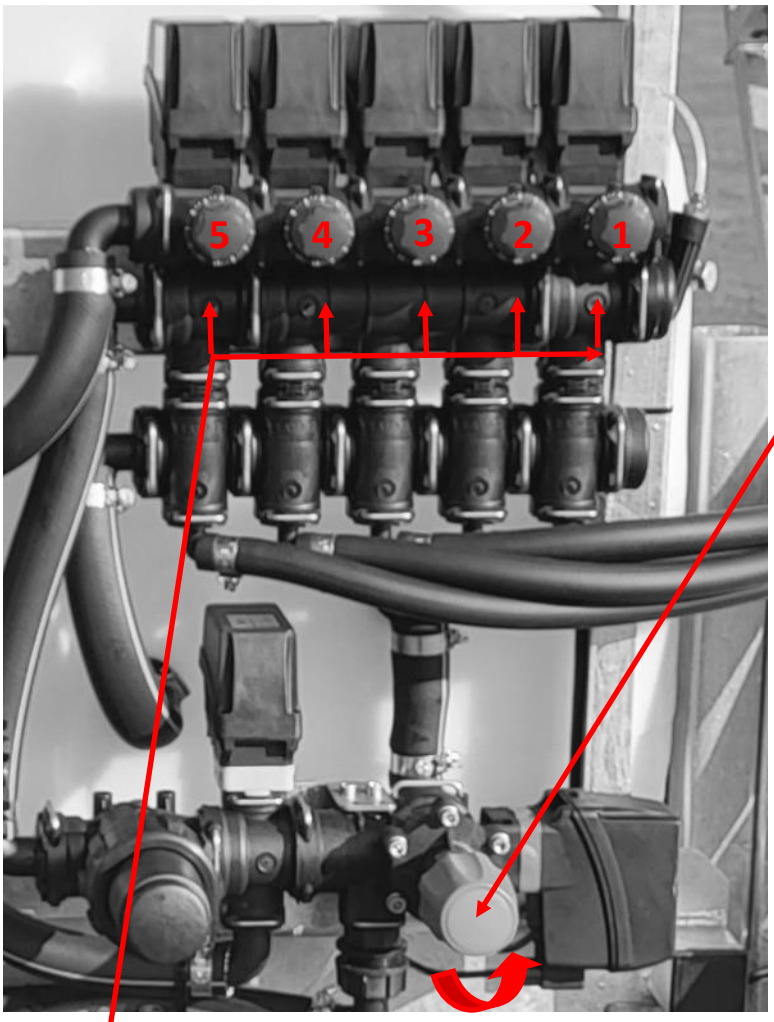
**NEVER LIFT THE SPRAYER WITH THE TIPPING HYDRAULIC RAM WHEN THERE IS LIQUID INSIDE THE TANK!**

## Operation:

Do not just bash on, hoping you're going to get it right!!! You're applying thousands of pounds worth of product… lets do a good job shall we…..

1. Connect to the TRUCK following the previous page instructions. Make sure the sprayer chassis is sitting level and the nozzles are 50cm from the ground when the machine is at the working posi tion on the vehicle
2. Put water inside the tank. ONLY ADD PRODUCT when there is at least 150lt of water in the tank. The pump MUST BE RUNNING via the hydraulic PTO when adding CHEMICAL. If you just add chemical without the pump running you risk choking your suction filter which will be a real pain in the backside for you.
4. Add the rest of the water to the required level.

**Controls:**




**Pressure Relief valve**

To set the relief valve, put the PTO speed to 540 rpm and start spraying water. Set the pressure to 5 bar using the YEL-LOW adjuster. Then un-screw the green knob (anti clockwise) until the pressure drops to 4.8 bar

**Boom Section Valves**

The sections are controlled from the cab switch box

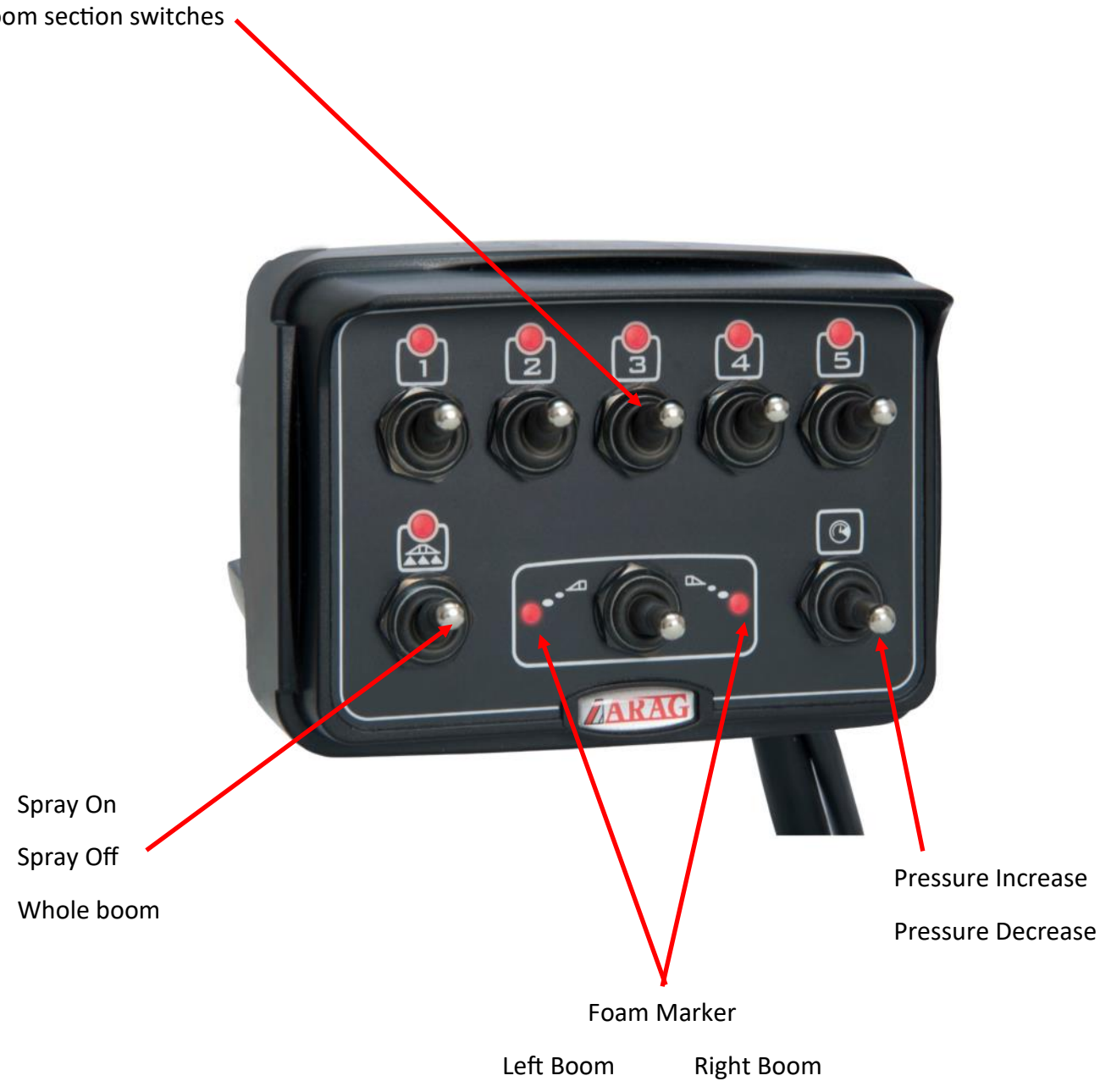
**Pressure Balancing** - To set the pressure balancing valves, follow this procedure:

1. Set the total boom spraying @ 3bar pressure
2. Turn off section 1, if the pressure increases above 3 bar, turn the balancing valve anti clockwise until the pres-sure is at 3 bar. If the pressure decreases below 3 bar, turn the balancing valve clockwise until the pressure is at 3 bar. Switch the section back on so the whole boom is spraying. Repeat the procedure for sections 2,3,4,5

## Operation:

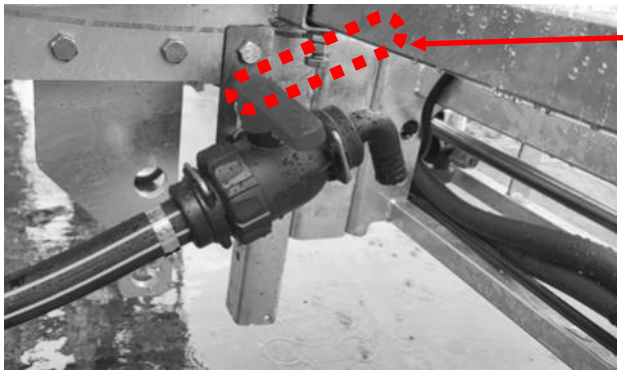
The switch box comes with a 12v ‘D’ plug for power. Modern tractors should come with a female D plug installed. If it has not, get your dealer to install one. Push in cigarette lighter type sockets are not good enough for professional 12v connections.

**Electric controls supplied as either 3 section or 5 section:**



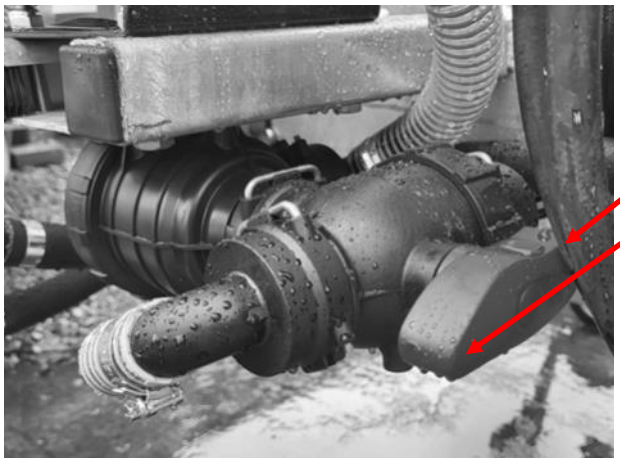
**Tank Suction & Tank Drain**

Underneath the main tank , at the rear of the machine is a valve which has 2 positions.



**DRAIN POSITION**

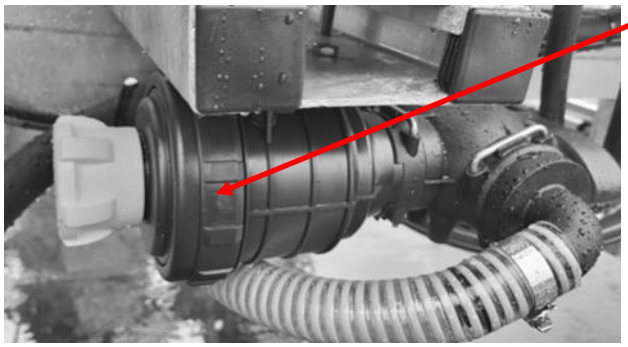
The valve must be pointing RIGHT to allow the tank contents to drain out



**MAIN TANK SUCTION OR CLEAN WATER SUCTION**

Valve Arrow pointing **RIGHT**= Clean Water Suction

Valve Arrow pointing **LEFT** = Main Tank Suction



**SUCTION FILTER LOCATED UNDER THE PUMP**

To clean the suction filter (WEEKLY) you must remove the yellow plunger first. Once it is removed, you should unscrew the large filter nut and remove the filter element to clean. Be careful not to lose the large filter O ring in the housing. Once cleaned, put back together and make sure the filter is fully assembled before replacing the yellow plunger

**Chemical Mixer Hopper**

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To use the induction hopper, there must be water in the main tank and the pump needs to be running at a minimum PTO speed of 400rpm.


Twist the hinged lid anti clockwise to open

Internal Rinse

Agitator

Can Wash

Hopper Empty to main tank

*If the valve is at 3 oclock or 9 oclock position, the hopper will not empty. To empty, turn the valve to the 12 oclock or 6 oclock position*

*The pump need to be running at a minimum of 400rpm PTO speed*

Arrow on the valve handle pointing towards the centre of the hopper (left) means the hopper is on and ready to use

Arrow on the valve handle pointing towards the boom (right) means the hopper is off and you are ready to spray.

**THE MACHINE WILL NOT SPRAY IF THE HOPPER IS ON**

Main Sprayer Tank Rinse

Hose Reel (if fitted)

Auxiliary Valve

Internal Bowl Rinse

Agitator inside the hopper

Chemical Can washer

**Boom Operation**

6m boom

The 6m boom has 4 nozzles per boom section at 50cm spacing. The boom is equipped with spring adjusted break-back devices in case of collision. The tension on the springs can be adjusted by the 30mm nut on top of the boom hinge. Do not make too tight. Doing so can cause too much rigidity and cause the boom to bend in there is collision. Usually 20 to 25mm of thread above the adjustment nut is adequate.

To open the boom:

- Pull the right hand boom arm towards you and open it towards the right hand side of the machine. Be sure to locate the boom in the fully open position
- Once the right hand boom arm is secured, pull the left hand boom arm towards you and open it towards the left hand side of the machine. Be sure to locate the boom in the fully open position

On a weekly basis, APPLY GREASE to the folding mechanism when the boom arm is half way between being full open and fully closed. **WARNING: DO NOT MOVE THE BOOM ARM WHEN YOU ARE GREASING THE BOOM HINGE. YOU MAY TRAP YOUR FINGERS IN THE MECHANISM. TAKE NOTE**

When **closing**, close **LEFT** hand boom arm first

When **opening,** open **RIGHT** hand boom arm first

**Boom Operation**

6m Hydraulic/Electric Boom

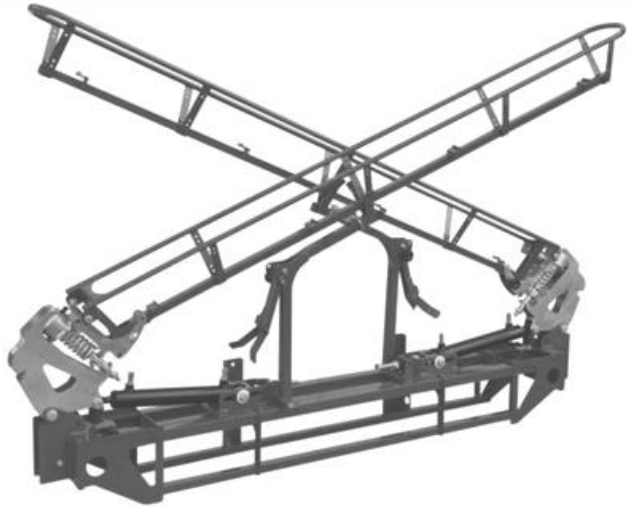
8m Hydraulic / Electric Boom

The 6m boom has 4 nozzles per boom section at 50cm spacing. The 8m boom has 4 nozzles in the centre, 3 nozzles on the first section and 3 nozzles on the second section. The boom is equipped with spring adjusted break-back devices in case of collision. The tension on the springs can be adjusted by the 30mm nut on top of the boom hinge. Do not make too tight. Doing so can cause too much rigidity and cause the boom to bend in there is collision. Usually 20 to 25mm of thread above the adjustment nut is adequate.

To open the boom:

- You will have 2 switches mounted on a box which has a 12v feed near the drivers position
- You can open either boom at any time or both booms together. There is a fuse for each switch underneath the switch on the external area of the switch box

On a weekly basis, APPLY GREASE to the folding mechanism when the boom arm is half way between being full open and fully closed. **WARNING: DO NOT MOVE THE BOOM ARM WHEN YOU ARE GREASING THE BOOM HINGE. YOU MAY TRAP YOUR FINGERS IN THE MECHANISM. TAKE NOTE**



Golf 6m


Golf 8m

**Nozzle Application Chart**

| COD. 110° CODE 110° CÓD. 110° | bar | drop 110° | l/min | l/ha (spazio tra gli ugelli: 50 cm) l/ha (nozzle spacing: 50 cm) l/ha (espacio entre las boquillas: 50 cm) 4 km/h | 6 km/h | 8 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | 18 km/h | 20 km/h | 25 km/h | drop 80° | COD. 80° CODE 80° CÓD. 80° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF11001 | 1.5 | F | 0.28 | 85 | 57 | 42 | 34 | 28 | 24 | 21 | 19 | 17 | 14 | F | SF08001 |
| | 3 | VF | 0.40 | 120 | 80 | 60 | 48 | 40 | 34 | 30 | 27 | 24 | 19 | VF | |
| | 5 | VF | 0.52 | 155 | 103 | 77 | 62 | 52 | 44 | 39 | 34 | 31 | 25 | VF | |
| | 7 | VF | 0.61 | 183 | 122 | 92 | 73 | 61 | 52 | 46 | 41 | 37 | 29 | VF | |
| SF110015 | 1.5 | F | 0.42 | 127 | 85 | 64 | 51 | 42 | 36 | 32 | 28 | 25 | 20 | F | SF080015 |
| | 3 | VF | 0.60 | 180 | 120 | 90 | 72 | 60 | 51 | 45 | 40 | 36 | 29 | VF | |
| | 5 | VF | 0.77 | 232 | 155 | 116 | 93 | 77 | 66 | 58 | 52 | 46 | 37 | VF | |
| | 7 | VF | 0.92 | 275 | 183 | 137 | 110 | 92 | 79 | 69 | 61 | 55 | 44 | VF | |
| SF11002 | 1.5 | F | 0.57 | 170 | 113 | 85 | 68 | 57 | 48 | 42 | 38 | 34 | 27 | F | SF08002 |
| | 3 | F | 0.80 | 240 | 160 | 120 | 96 | 80 | 69 | 60 | 53 | 48 | 38 | F | |
| | 5 | VF | 1.03 | 310 | 207 | 155 | 124 | 103 | 89 | 77 | 69 | 62 | 50 | VF | |
| | 7 | VF | 1.22 | 367 | 244 | 183 | 147 | 122 | 105 | 92 | 81 | 73 | 59 | VF | |
| SF110025 | 1.5 | F | 0.71 | 212 | 141 | 106 | 85 | 71 | 61 | 53 | 47 | 42 | 34 | --- | NA |
| | 3 | F | 1.00 | 300 | 200 | 150 | 120 | 100 | 86 | 75 | 67 | 60 | 48 | | |
| | 5 | VF | 1.29 | 387 | 258 | 194 | 155 | 129 | 111 | 97 | 86 | 77 | 62 | | |
| | 7 | VF | 1.53 | 458 | 306 | 229 | 183 | 153 | 131 | 115 | 102 | 92 | 73 | | |
| SF11003 | 1.5 | M | 0.85 | 255 | 170 | 127 | 102 | 85 | 73 | 64 | 57 | 51 | 41 | M | SF08003 |
| | 3 | F | 1.20 | 360 | 240 | 180 | 144 | 120 | 103 | 90 | 80 | 72 | 58 | F | |
| | 5 | F | 1.55 | 465 | 310 | 232 | 186 | 155 | 133 | 116 | 103 | 93 | 74 | F | |
| | 7 | VF | 1.83 | 550 | 367 | 275 | 220 | 183 | 157 | 137 | 122 | 110 | 88 | VF | |
| SF11004 | 1.5 | M | 1.13 | 339 | 226 | 170 | 136 | 113 | 97 | 85 | 75 | 68 | 54 | M | SF08004 |
| | 3 | F | 1.60 | 480 | 320 | 240 | 192 | 160 | 137 | 120 | 107 | 96 | 77 | F | |
| | 5 | F | 2.07 | 620 | 413 | 310 | 248 | 207 | 177 | 155 | 138 | 124 | 99 | F | |
| | 7 | F | 2.44 | 733 | 489 | 367 | 293 | 244 | 209 | 183 | 163 | 147 | 117 | F | |
| SF11005 | 1.5 | C | 1.41 | 424 | 283 | 212 | 170 | 141 | 121 | 106 | 94 | 85 | 68 | C | SF08005 |
| | 3 | M | 2.00 | 600 | 400 | 300 | 240 | 200 | 171 | 150 | 133 | 120 | 96 | M | |
| | 5 | M | 2.58 | 775 | 516 | 387 | 310 | 258 | 221 | 194 | 172 | 155 | 124 | M | |
| | 7 | M | 3.06 | 917 | 611 | 458 | 367 | 306 | 262 | 229 | 204 | 183 | 147 | M | |
| SF11006 | 1.5 | C | 1.70 | 509 | 339 | 255 | 204 | 170 | 145 | 127 | 113 | 102 | 81 | C | SF08006 |
| | 3 | C | 2.40 | 720 | 480 | 360 | 288 | 240 | 206 | 180 | 160 | 144 | 115 | C | |
| | 5 | C | 3.10 | 930 | 620 | 465 | 372 | 310 | 266 | 232 | 207 | 186 | 149 | C | |
| | 7 | C | 3.67 | 1.100 | 733 | 550 | 440 | 367 | 314 | 275 | 244 | 220 | 176 | C | |
| SF11008 | 1.5 | C | 2.26 | 679 | 453 | 339 | 272 | 226 | 194 | 170 | 151 | 136 | 109 | C | SF08008 |
| | 3 | C | 3.20 | 960 | 640 | 480 | 384 | 320 | 274 | 240 | 213 | 192 | 154 | C | |
| | 5 | C | 4.13 | 1.239 | 826 | 620 | 496 | 413 | 354 | 310 | 275 | 248 | 198 | C | |
| | 7 | C | 4.89 | 1.466 | 978 | 733 | 587 | 489 | 419 | 367 | 326 | 293 | 235 | C | |
| SF11010 | 1.5 | C | 2.83 | 849 | 566 | 424 | 339 | 283 | 242 | 212 | 189 | 170 | 136 | C | SF08010 |
| | 3 | C | 4.00 | 1.200 | 800 | 600 | 480 | 400 | 343 | 300 | 267 | 240 | 192 | C | |
| | 5 | C | 5.16 | 1.549 | 1.033 | 775 | 620 | 516 | 443 | 387 | 344 | 310 | 248 | C | |
| | 7 | C | 6.11 | 1.833 | 1.222 | 917 | 733 | 611 | 524 | 458 | 407 | 367 | 293 | C | |
| SF11015 | 1.5 | VC | 4.24 | 1.273 | 849 | 636 | 509 | 424 | 364 | 318 | 283 | 255 | 204 | --- | NA |
| | 3 | VC | 6.00 | 1.800 | 1.200 | 900 | 720 | 600 | 514 | 450 | 400 | 360 | 288 | | |
| | 5 | VC | 7.75 | 2.324 | 1.549 | 1.162 | 930 | 775 | 664 | 581 | 516 | 465 | 372 | | |
| | 7 | VC | 9.17 | 2.750 | 1.833 | 1.375 | 1.100 | 917 | 786 | 687 | 611 | 550 | 440 | | |