



NOCCHI EASYBOOST RESIDENTIAL - PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

COMPACT, STURDY, HIGH HYDRAULIC EFFICIENCY, RELIABLE

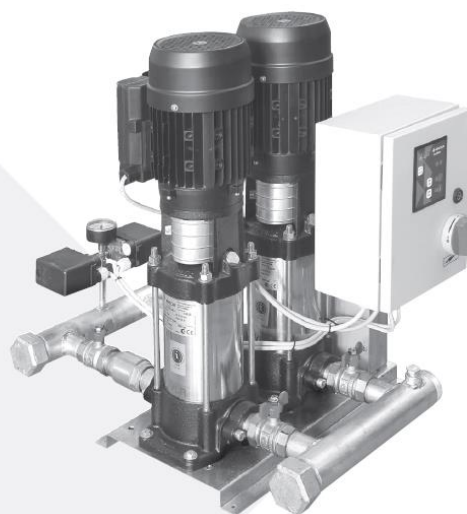
They are booster set for the automatic pressurization of water distribution systems with single phase power supply consisting of: 2 pumps, electrical panel, base, intake and delivery manifolds, pressure switches, pressure gauge and check valve in supply.

DESCRIPTION OF OPERATION

The pumps are controlled by two pressure switches with adjustable settings, via an electrical panel with an electronic board for:

- the sequential start-up of the pumps
- the inversion of the start-up order
- the settings for protection against dry running
- timer (adjustable from 0 to 180")

When the mains pressure reaches the value for the closing of the electrical contact of pressure switch n.1, a pump starts. If the pressure continues to drop, once the value of the closing pressure of the second pressure switch has been reached, the other pump starts. When the value of the network pressure increases, the pressure switches open their contact causing the relative pump to stop. At the end of each cycle, the automatic inverter changes the starting order of the pumps (once pressure switch n.1 is associated to pump n.1; in the next cycle to pump n.2).



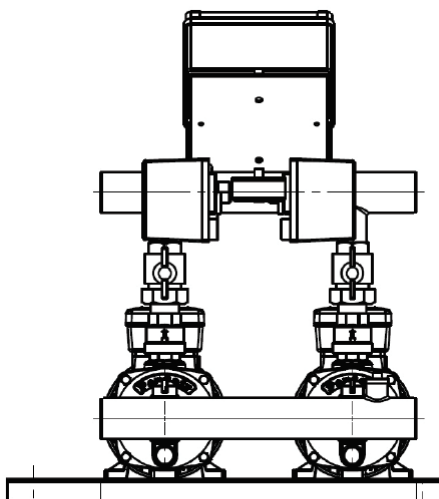
| NUMBER OF PUMPS | | MAXIMUM CAPACITY | |
|-----------------|-------|------------------|-----------------|
| Main | Pilot | L/min | m³/h |
| 2 | - | from 200 to 480 | from 12 to 28.8 |

NOCCHI EASYBOOST

PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

USAGE DATA

| USAGE DATA | CB | DHR | MULTINOX VE + | PVM |
|---------------------------------------|-------------------|--------|---------------|--------|
| Maximum capacity (m³/h) | 16.8 | 28.8 | 25.2 | 17 |
| Maximum head (m.c.a.) | 60.5 | 63 | 140 | 110 |
| Maximum operating pressure | 9 bar | 10 bar | 14 bar | 16 bar |
| Power supply VOLT. | 1 ~ 230 / 3~400 V | | | |
| Frequency | 50 Hz | | | |
| Degree of protection of control panel | IP55 | IP54 | IP55 | IP54 |
| Degree of protection of pump | IP44 | IP55 | IP44 | IP55 |
| Ambient temperature | 40° C | 50° C | 50° C | 50° C |



PUMP

- n. 2 CB - Bi-rotating centrifugal horizontal axis
- n. 2 MULTINOX VE+ - Multicellular centrifugal vertical axis
- n. 2 DHR - Multicellular centrifugal vertical axis
- n. 2 PVM - Multicellular centrifugal vertical axis

SUCTION MANIFOLD

- n. 2 brass ball valves
- n. 1 sleeve for water load

DELIVERY MANIFOLD

- n. 2 brass ball valves
- n. 2 check valves
- n. 1 pressure gauge
- n. 2 pressure switches

BASE

- In galvanized metal

NOCCHI EASYBOOST

PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

SINGLE PHASE ELECTRICAL PANEL

ELECTRICAL PANEL

- Box in plastic material IP65
- Fuses
- Multifunctional electronic board with integrated transformer for the auxiliary circuit
- Start-up relay for each pump
- Protection against overload provided by the electronic board
- Trimmer to adjust the delay time from 0 to 180 seconds, after the opening of the contact of the pressure switch (for each pump)

MAIN FUNCTIONS

- Cyclic inversion of the start-up order of the pumps after each cycle end.
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch.
- Adjustable timer for the pumps

SIGNALS AND CONTROLS

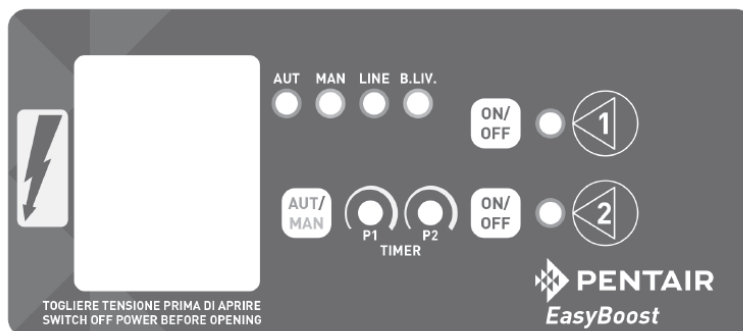
- Manual - Automatic button
- ON/OFF buttons for each pump
- LED indicating the presence of power
- LED indicating pump in operation
- LED indicating low level in the collection tank or pressure insufficient in the Suction manifold
- LEDs indicating manual or automatic operation
- BMS with contacts for each pump: pump on and overload

EXTRENAL CONTROL DEVICES

- Two adjustable differential pressure switches ON/OFF

EXTRENAL CONTROL DEVICES

- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)



NOCCHI EASYBOOST

PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

THREE-PHASE ELECTRICAL PANEL

ELECTRICAL PANEL

- Metal box IP54
- Main switch
- Electronic board
- Fuses and contactors for each pump
- Protection against overload provided by the electronic board
- Transformer with fuses for the auxiliary circuit

MAIN FUNCTIONS

- Cyclic inversion of the start-up order of the pumps after each cycle end.
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch.
- Timer of the last pump settable from 0 to 180 seconds, after the opening of the pressure switch operation contact.

SIGNALS AND CONTROLS

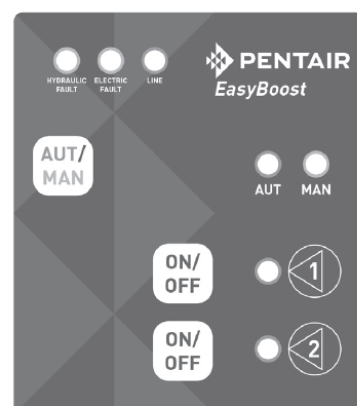
- M-0-T button [Manual - 0 - Automatic]
- ON/OFF buttons for each pump
- LED indicating the presence of power
- LED indicating pump in operation
- LED indicating low level in the collection tank or pressure insufficient in the Suction manifold
- LED indicating overload
- LEDs indicating manual or automatic operation
- BMS with contacts for each pump: pump on, overload and no water alarm
- Communication RS232/RS485

EXTRENAL CONTROL DEVICES

- Two adjustable differential pressure switches ON/OFF

EXTRENAL CONTROL DEVICES

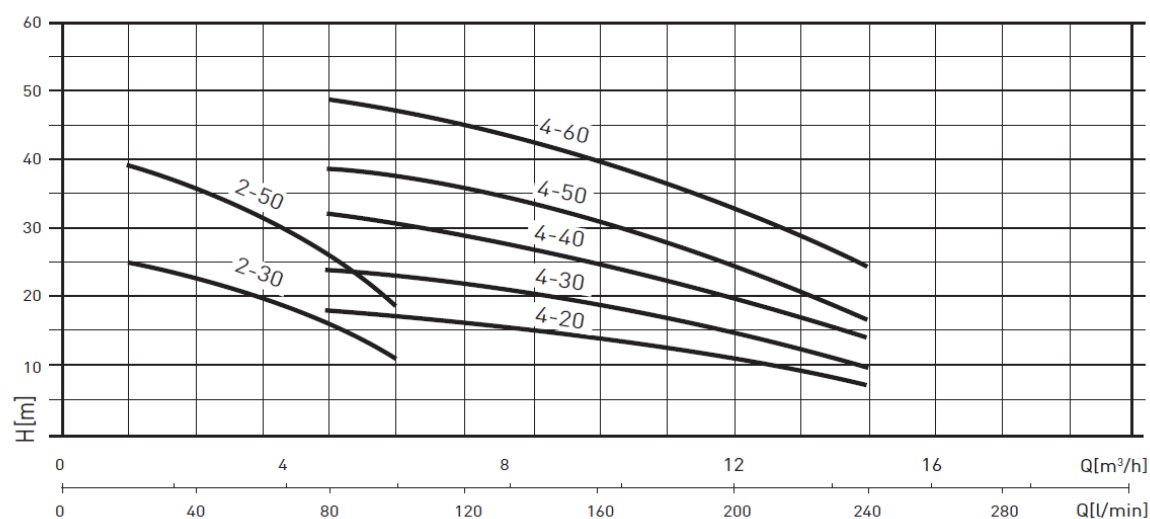
- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)



NOCCHI EASYBOOST - DHR 2/4

SINGLE PHASE AND THREE-PHASE PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

| MODEL | kW | VOLT. [V] | l/min m³ / h | 20 | 60 | 80 | 100 | 160 | 200 | 240 |
|-----------------|--------|--------------|-----------------|-----|-----|-----|-----|-----|-----|------|
| | | | | 1.2 | 3.6 | 4.8 | 6 | 9.6 | 12 | 14.4 |
| EASY2Q/DHR 2-30 | 2x0.30 | 1 ~ 230 | m.c.a. / m.c.w. | 25 | 19 | 16 | 12 | | | |
| | | 3 ~ 400 | | | | | | | | |
| EASY2Q/DHR 2-50 | 2x0.50 | 1 ~ 230 | | 39 | 30 | 23 | 16 | | | |
| | | 3 ~ 400 | | | | | | | | |
| EASY2Q/DHR 4-20 | 2x0.37 | 1 ~ 230 | | | | 17 | 16 | 13 | 11 | 7 |
| | | 3 ~ 400 | | | | | | | | |
| EASY2Q/DHR 4-30 | 2x0.5 | 1 ~ 230 | | | | 24 | 23 | 18 | 14 | 10 |
| | | 3 ~ 400 | | | | | | | | |
| EASY2Q/DHR 4-40 | 2x0.70 | 1 ~ 230 | | | | 32 | 30 | 25 | 20 | 14 |
| | | 3 ~ 400 | | | | | | | | |
| EASY2Q/DHR 4-50 | 2x0.90 | 1 ~ 230 | | | | 39 | 38 | 31 | 25 | 17 |
| | | 3 ~ 400 | | | | | | | | |
| EASY2Q/DHR 4-60 | 2x1.2 | 1 ~ 230 | | | | 49 | 47 | 41 | 34 | 25 |
| | | 3 ~ 400 | | | | | | | | |

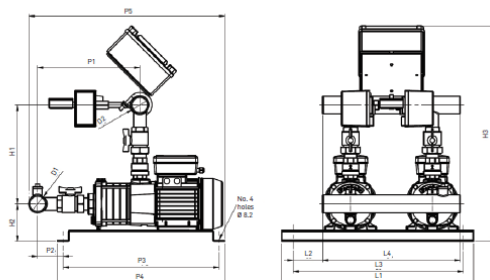
For VOLT. values, see the data of the reference pump

NOCCHI EASYBOOST - DHR 2/4

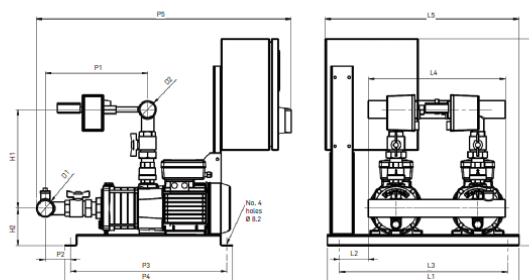
SINGLE PHASE AND THREE-PHASE PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

OVERALL DIMENSIONS AND WEIGHTS

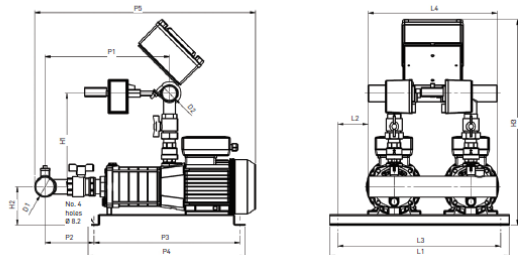
SINGLE PHASE - DHR 2



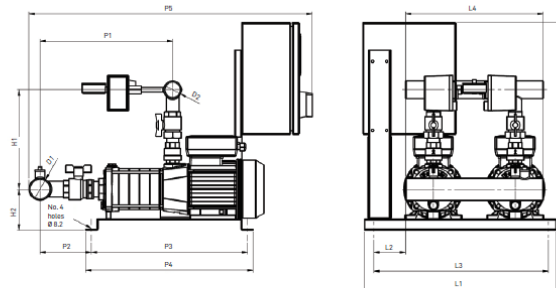
THREE-PHASE - DHR 2



SINGLE PHASE - DHR 4



THREE-PHASE - DHR 4



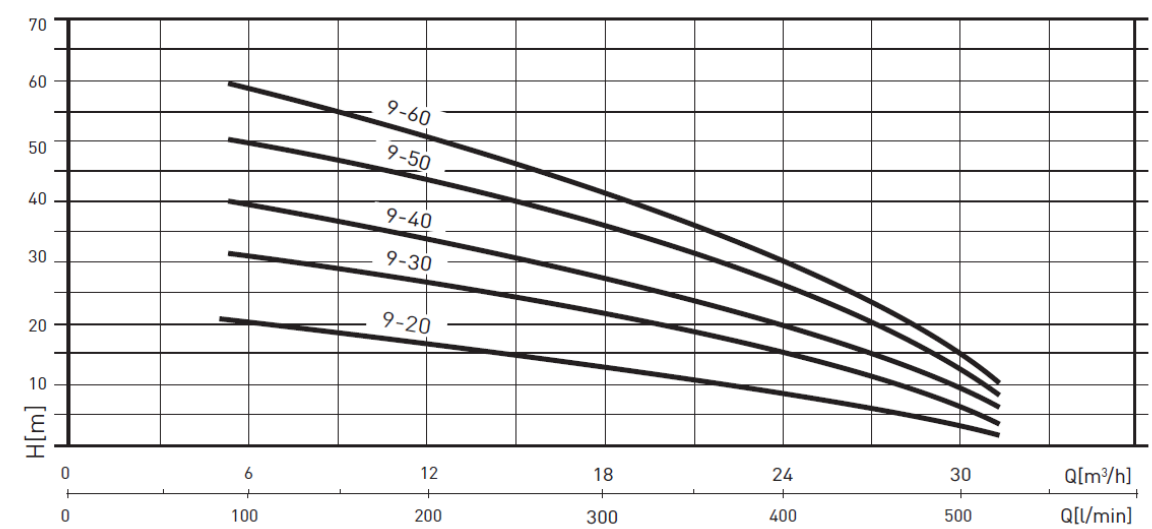
OVERALL DIMENSIONS AND WEIGHTS

| MODEL | Dimensions mm. | | | | | | | | | | | | | | | WEIGHTS (Kg) | |
|---------------------|----------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|--------------|------|
| | L1 | L2 | L3 | L4 | L5 | P1 | P2 | P3 | P4 | P5 | H1 | H2 | H3 | D1 | D2 | 220V | 400V |
| EASY20/DHR 2-30M-GI | 515 | 95 | 485 | 370 | X | 311 | 105 | 420 | 450 | 720 | 265 | 100 | 578 | 1-1/2" | 1-1/2" | 32 | 38 |
| EASY20/DHR 2-30T-GI | 515 | 95 | 485 | 370 | 520 | 311 | 105 | 420 | 450 | 723 | 265 | 100 | 560 | 1-1/2" | 1-1/2" | 32 | 38 |
| EASY20/DHR 2-50M-GI | 515 | 95 | 485 | 370 | X | 275 | 69 | 420 | 450 | 685 | 265 | 100 | 578 | 1-1/2" | 1-1/2" | 35 | 41 |
| EASY20/DHR 2-50T-GI | 515 | 95 | 485 | 370 | 520 | 275 | 69 | 420 | 450 | 687 | 265 | 100 | 560 | 1-1/2" | 1-1/2" | 35 | 41 |
| EASY20/DHR 4-20M-GI | 515 | 95 | 485 | 370 | X | 357 | 30 | 420 | 450 | 524 | 267 | 110 | 590 | 2" | 1-1/2" | 34 | 40 |
| EASY20/DHR 4-20T-GI | 515 | 95 | 485 | 370 | 520 | 357 | 30 | 420 | 450 | 524 | 267 | 110 | 560 | 2" | 1-1/2" | 34 | 40 |
| EASY20/DHR 4-30M-GI | 515 | 95 | 485 | 370 | X | 357 | 57 | 420 | 450 | 551 | 267 | 110 | 590 | 2" | 1-1/2" | 34 | 40 |
| EASY20/DHR 4-30T-GI | 515 | 95 | 485 | 370 | 520 | 357 | 57 | 420 | 450 | 551 | 267 | 110 | 560 | 2" | 1-1/2" | 34 | 40 |
| EASY20/DHR 4-40M-GI | 515 | 95 | 485 | 370 | X | 357 | 84 | 420 | 450 | 578 | 267 | 110 | 590 | 2" | 1-1/2" | 36 | 42 |
| EASY20/DHR 4-40T-GI | 515 | 95 | 485 | 370 | 520 | 357 | 84 | 420 | 450 | 578 | 267 | 110 | 560 | 2" | 1-1/2" | 36 | 42 |
| EASY20/DHR 4-50M-GI | 515 | 95 | 485 | 370 | X | 357 | 111 | 420 | 450 | 605 | 267 | 110 | 590 | 2" | 1-1/2" | 40 | 46 |
| EASY20/DHR 4-50T-GI | 515 | 95 | 485 | 370 | 520 | 357 | 111 | 420 | 450 | 605 | 267 | 110 | 560 | 2" | 1-1/2" | 40 | 46 |
| EASY20/DHR 4-60M-GI | 515 | 95 | 485 | 370 | X | 357 | 138 | 420 | 450 | 632 | 267 | 110 | 590 | 2" | 1-1/2" | 46 | 52 |
| EASY20/DHR 4-60T-GI | 515 | 95 | 485 | 370 | 520 | 357 | 138 | 420 | 450 | 632 | 267 | 110 | 560 | 2" | 1-1/2" | 46 | 52 |

NOCCHI EASYBOOST - DHR 9

PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

HYDRAULIC PERFORMANCE



PERFORMANCE TABLE

| MODEL | kW | VOLT. [V] | | l/min | 80 | 160 | 240 | 320 | 400 | 480 |
|-----------------|--------|--------------|-----------------|--------|-----|-----|------|------|-----|------|
| | | | | m³ / h | 4.8 | 9.6 | 14.4 | 19.2 | 24 | 28.8 |
| EASY20/DHR 9-20 | 2x0.65 | 1 ~ 230 | m.c.a. / m.c.w. | | 20 | 19 | 16 | 13 | 9 | 5 |
| | | 3 ~ 400 | | | | | | | | |
| EASY20/DHR 9-30 | 2x0.95 | 1 ~ 230 | | | 31 | 29 | 26 | 21 | 16 | 9 |
| | | 3 ~ 400 | | | | | | | | |
| EASY20/DHR 9-40 | 2x1.3 | 1 ~ 230 | | | 40 | 38 | 33 | 27 | 19 | 10 |
| | | 3 ~ 400 | | | | | | | | |
| EASY20/DHR 9-50 | 2x1.6 | 1 ~ 230 | | | 51 | 49 | 43 | 36 | 26 | 14 |
| | | 3 ~ 400 | | | | | | | | |
| EASY20/DHR 9-60 | 2x1.9 | 3 ~ 400 | | | 60 | 56 | 49 | 40 | 29 | 14 |

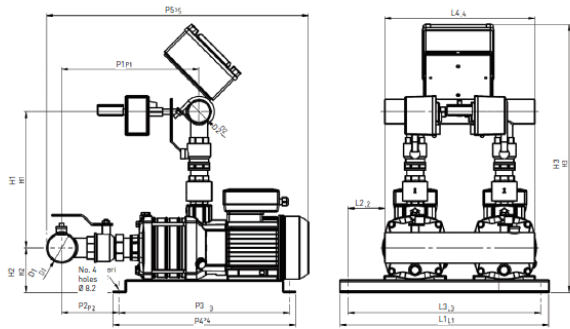
For VOLT. values, see the data of the reference pump

NOCCHI EASYBOOST - DHR 9

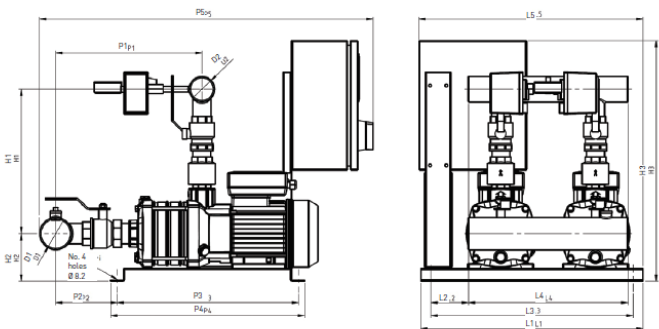
PRESSURE BOOSTER SET WITH PRESSURE SWITCH CONTROL

OVERALL DIMENSIONS AND WEIGHTS

SINGLE PHASE



THREE-PHASE



OVERALL DIMENSIONS AND WEIGHTS

| MODEL | Dimensions mm. | | | | | | | | | | | | | | | Weight (Kg) |
|---------------------|----------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|----|-------------|
| | L1 | L2 | L3 | L4 | L5 | P1 | P2 | P3 | P4 | P5 | H1 | H2 | H3 | D1 | D2 | |
| EASY20/DHR 9-20M-GI | 515 | 95 | 485 | 370 | X | 280 | 82 | 420 | 450 | 588 | 110 | 335 | 660 | 2-1/2" | 2" | 54 |
| EASY20/DHR 9-20T-GI | 515 | 95 | 485 | 370 | 520 | 280 | 82 | 420 | 450 | 713 | 110 | 335 | 560 | 2-1/2" | 2" | 54 |
| EASY20/DHR 9-30M-GI | 515 | 95 | 485 | 370 | X | 280 | 82 | 420 | 450 | 588 | 110 | 335 | 660 | 2-1/2" | 2" | 55 |
| EASY20/DHR 9-30T-GI | 515 | 95 | 485 | 370 | 520 | 280 | 82 | 420 | 450 | 713 | 110 | 335 | 560 | 2-1/2" | 2" | 55 |
| EASY20/DHR 9-40M-GI | 515 | 95 | 485 | 370 | X | 310 | 112 | 420 | 450 | 618 | 110 | 335 | 660 | 2-1/2" | 2" | 57 |
| EASY20/DHR 9-40T-GI | 515 | 95 | 485 | 370 | 520 | 310 | 112 | 420 | 450 | 743 | 110 | 335 | 560 | 2-1/2" | 2" | 57 |
| EASY20/DHR 9-50M-GI | 515 | 95 | 485 | 370 | X | 340 | 142 | 420 | 450 | 648 | 110 | 335 | 660 | 2-1/2" | 2" | 62 |
| EASY20/DHR 9-50T-GI | 515 | 95 | 485 | 370 | 520 | 340 | 142 | 420 | 450 | 773 | 110 | 335 | 560 | 2-1/2" | 2" | 62 |
| EASY20/DHR 9-60T-GI | 515 | 95 | 485 | 370 | 520 | 370 | 172 | 420 | 450 | 803 | 110 | 335 | 560 | 2-1/2" | 2" | 65 |