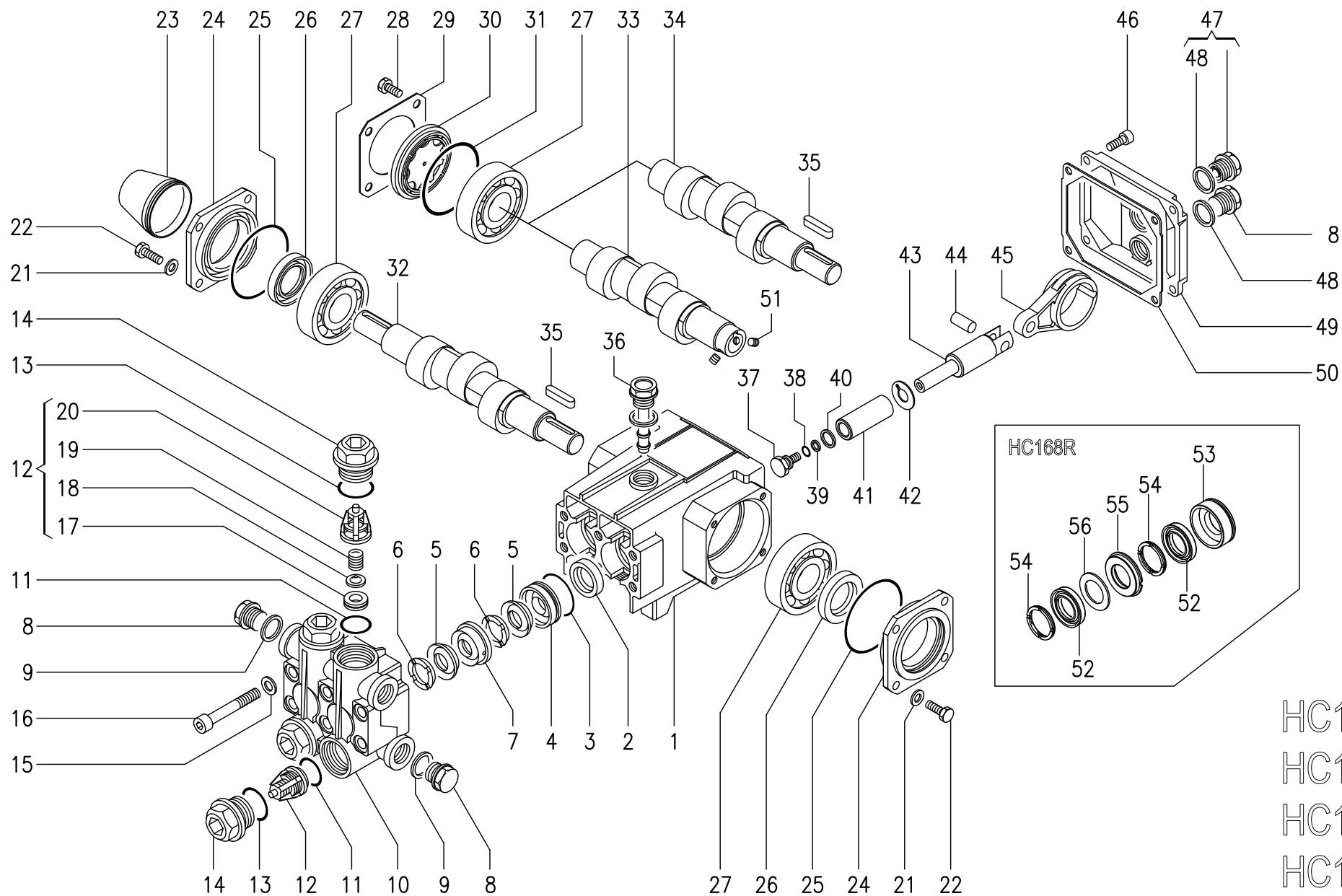




HC165A  
 HC168  
 HC170  
 HC190

HAWK pumps  
 Duplex series

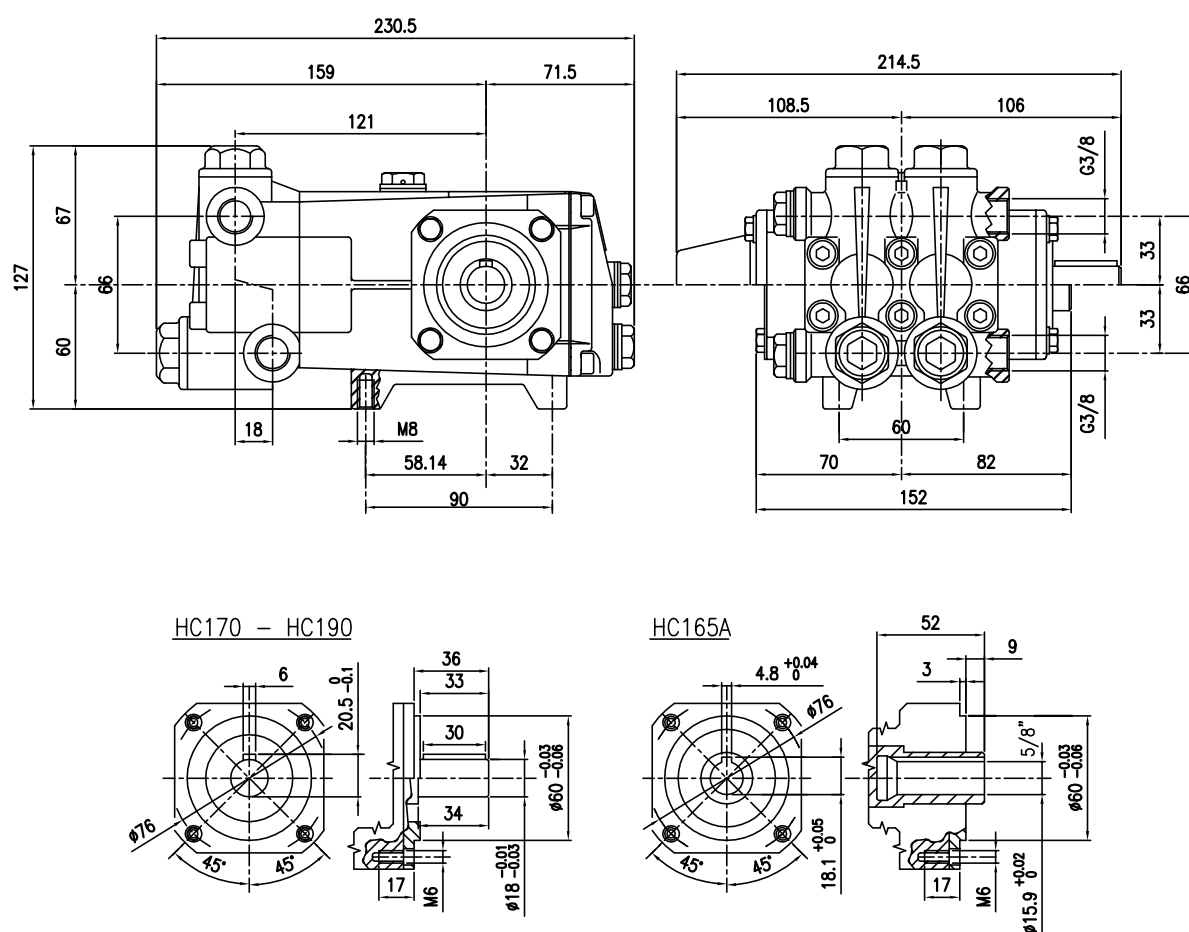
# DUPLEX

## Technical Characteristics

| Pump<br>Pompe<br>Pumpen<br>Pompa | Pressure<br>Pression<br>Druck<br>Pressione |      | Volume<br>Débit<br>Leistung<br>Portata |     | RPM<br>tours/min<br>u.p.m.<br>giri/min | Required HP<br>Puissance HP<br>Leistung HP<br>Potenza HP | Inlet port<br>Entrée<br>Eingang<br>Aspirazione | Outlet<br>Sortie<br>Ausgang<br>Mandata | Weight Kg<br>Poids Kg<br>Gewicht Kg<br>Peso Kg |
|----------------------------------|--------------------------------------------|------|----------------------------------------|-----|----------------------------------------|----------------------------------------------------------|------------------------------------------------|----------------------------------------|------------------------------------------------|
|                                  | bar                                        | PSI  | l/min                                  | GPM |                                        |                                                          |                                                |                                        |                                                |
| <b>HC165</b>                     | 100                                        | 1500 | 8.5                                    | 2.2 | 1725                                   | 2.2                                                      | G 3/8                                          | G 3/8                                  | 5.7                                            |
| <b>HC168</b>                     | 100                                        | 1500 | 8.5                                    | 2.2 | 1725                                   | 2.2                                                      | G 3/8                                          | G 3/8                                  | 5.7                                            |
| <b>HC170</b>                     | 100                                        | 1500 | 8.0                                    |     | 1450                                   | 2.0                                                      | G 3/8                                          | G 3/8                                  | 6.0                                            |
|                                  |                                            |      |                                        | 2.5 | 1725                                   | 2.4                                                      |                                                |                                        |                                                |
| <b>HC190</b>                     | 100                                        | 1500 | 11                                     |     | 1450                                   | 2.8                                                      | G 3/8                                          | G 3/8                                  | 6.0                                            |
|                                  |                                            |      |                                        | 3.5 | 1725                                   | 3.4                                                      |                                                |                                        |                                                |

## Dimensioni d'ingombro

### Overall dimensions



Lubrificazione: Olio SAE 20/40W  
Capacità 0.4 Litri

Lubrication: SAE 20/40W Oil  
Capacity 0.4 Liters

| Pos. Item | Codice Part Number | Description          | Descrizione           | Q.tà/Pompa<br>Q.ty/Pump | HC165ARL | HC168R | HC170 | HC170RL | HC190 | HC190RL |
|-----------|--------------------|----------------------|-----------------------|-------------------------|----------|--------|-------|---------|-------|---------|
| 1         | 0202.04            | Crankcase            | Carter                | 1                       |          |        |       |         |       |         |
| *2        | 0001.01            | Plunger oil seal     | Anello radiale        | 2                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| *3        | 0601.07            | "O" Ring Ø1.78x31,47 | "O" Ring Ø1.78x31,47  | 2                       |          |        |       |         |       |         |
| *4        | 1201.04            | Pressure ring 20mm   | Pressore Ø20          | 2                       | ◆        |        | ◆     | ◆       | ◆     | ◆       |
| *5        | 0002.05            | "V" seal, dia.20mm   | Anello tenuta "V" Ø20 | 4                       | ◆        |        | ◆     | ◆       | ◆     | ◆       |
| *6        | 0300.09            | Support ring 20mm    | Diffusore Ø20         | 4                       | ◆        |        | ◆     | ◆       | ◆     | ◆       |
| *7        | 0300.19            | Intermed. ring 20mm  | Diffusore Interm. Ø20 | 2                       | ◆        |        | ◆     | ◆       | ◆     | ◆       |
| 8         | 1601.17            | Brass plug G3/8      | Tappo G3/8            | 3                       |          |        |       |         |       |         |
| 9         | 0603.06            | Copper washer 3/8    | Guarnizione rame G3/8 | 2                       |          |        |       |         |       |         |
| 10        | 1602.12            | Manifold housing     | Testata               | 1                       |          |        |       |         |       |         |
| *11       | 0601.06            | "O" Ring Ø2.62x18.72 | "O" Ring Ø2.62x18.72  | 4                       |          |        |       |         |       |         |
| *12       | 3604.10            | Valve assembly       | Valvola premontata    | 4                       |          |        |       |         |       |         |
| *13       | 0601.05            | "O" Ring Ø2.62x23.47 | "O" Ring Ø2.62x23.47  | 4                       |          |        |       |         |       |         |
| 14        | 1601.07            | Valve plug           | Tappo valvola         | 4                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| 15        | 1400.01            | Washer               | Rosetta Ø8.5          | 6                       |          |        |       |         |       |         |
| 16        | 1801.18            | Manifold stud bolt   | Vite M8x60            | 6                       |          |        |       |         |       |         |
| 17        | 1503.00            | Valve seat           | Sede valvola          | 4                       |          |        |       |         |       |         |
| 18        | 1202.00            | Valve plate          | Piattello valvola     | 4                       |          |        |       |         |       |         |
| 19        | 0900.04            | Valve spring         | Molla valvola         | 4                       |          |        |       |         |       |         |
| 20        | 0604.00            | Valve cage           | Gabbia valvola        | 4                       |          |        |       |         |       |         |
| 21        | 1400.02            | Washer               | Rosetta Ø6,5          | →                       | 4        | 4      | 8     | 4       | 8     | 4       |
| 22        | 1802.07            | Hexagonal screw      | Vite M6x18            | →                       | 4        | 4      | 8     | 4       | 8     | 4       |
| 23        | 0205.01            | Shaft protector      | Protezione albero     | 1                       |          |        | ◆     |         | ◆     |         |
| 24        | 0500.09            | Open flange          | Flangia cuscinetto    | →                       | 1        | 1      | 2     | 1       | 2     | 1       |
| 25        | 0601.09            | "O" Ring Ø2.62x61.6  | "O" Ring Ø2.62x61.6   | →                       | 1        | 1      | 2     | 1       | 2     | 1       |
| 26        | 0001.06            | Shat oil seal        | Anello radiale        | →                       | 1        | 1      | 2     | 1       | 2     | 1       |
| 27        | 0213.00            | Ball bearing         | Cuscinetto a sfere    | 2                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| 28        | 1802.13            | Hexagonal screw      | Vite M6x18            | 4                       |          |        |       |         |       |         |
| 29        | 0203.18            | Bearing cover        | Coprchio cuscinetto   | 1                       | ◆        | ◆      |       | ◆       |       | ◆       |
| 30        | 0700.03            | Sight glass          | Spia livello olio     | 1                       |          |        |       |         |       |         |
| 31        | 0601.83            | "O" Ring Ø3.53x55.56 | "O" Ring Ø3.53x55.56  | 1                       |          |        |       |         |       |         |
| 32        | 0004.24            | Crankshaft           | Albero eccentrico     | 1                       |          |        | ◆     |         |       |         |
|           | 0004.26            | Crankshaft           | Albero eccentrico     | 1                       |          |        |       |         | ◆     |         |
| 33        | 0004.52            | Crankshaft           | Albero eccentrico     | 1                       | ◆        | ◆      |       |         |       |         |
| 34        | 0004.32            | Crankshaft           | Albero eccentrico     | 1                       |          |        |       | ◆       |       |         |
|           | 0004.51            | Crankshaft           | Albero eccentrico     |                         |          |        |       |         |       | ◆       |
| 35        | 0206.03            | Crankshaft key       | Chiavetta             | 1                       |          |        |       |         |       |         |
| 36        | 1600.03            | Oil dip stick        | Tappo livello olio    | 1                       |          |        |       |         |       |         |
| *37       | 1800.01            | Plunger bolt         | Vite pistone          | 2                       |          |        |       |         |       |         |
| *38       | 0601.03            | "O" Ring Ø1.78x7.66  | "O" Ring Ø1.78x7.66   | 2                       |          |        |       |         |       |         |
| *39       | 0009.04            | Teflon ring          | Anello antiestrusione | 2                       |          |        |       |         |       |         |
| *40       | 1400.12            | Copper spacer        | Rosetta rame          | 2                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| *41       | 1200.16            | Plunger 20mm         | Pistone Ø20           | 2                       |          |        |       |         |       |         |
| *42       | 1400.15            | Copper spacer        | Rosetta rame          | 2                       |          |        |       |         |       |         |
| 43        | 0003.12            | Plunger rod          | Asta pistone          | 2                       |          |        |       |         |       |         |
| 44        | 1502.02            | Connecting rod pin   | Spinotto              | 2                       |          |        |       |         |       |         |
| 45        | 0100.02            | Connecting rod       | Biella                | 2                       |          |        |       |         |       |         |
| 46        | 1801.12            | Cover screw          | Vite M6x16            | 4                       |          |        |       |         |       |         |
| 47        | 0700.01            | Sight glass          | Spia livello olio     | 1                       |          |        | ◆     |         | ◆     |         |
| 48        | 0603.02            | Gasket, G3/8         | Guarnizione G3/8      | 1                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |

| Pos. Item | Codice Part Number | Description         | Descrizione           | Q.tà/Pompa<br>Q.ty/Pump | HC165ARL | HC168R | HC170 | HC170RL | HC190 | HC190RL |
|-----------|--------------------|---------------------|-----------------------|-------------------------|----------|--------|-------|---------|-------|---------|
| 49        | 0203.06            | Crankcase cover     | Coperchio             | 1                       |          |        | ◆     |         | ◆     |         |
|           | 0203.24            | Crankcase cover     | Coperchio             | 1                       | ◆        | ◆      |       | ◆       |       | ◆       |
| 50        | 0600.06            | Cover gasket        | Guarnizione coperchio | 1                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| 51        | 1803.02            | Set screw           | Vite STEI M6x6        | 2                       | ◆        | ◆      |       |         |       |         |
| *52       | 0002.32            | "U" seal, dia.20mm  | Anello tenuta "U" Ø20 | 4                       |          | ◆      |       |         |       |         |
| *53       | 1201.23            | Pressure ring 20mm  | Pressore Ø20          | 2                       |          | ◆      |       |         |       |         |
| *54       | 0300.36            | Support ring 20mm   | Diffusore Ø20         | 4                       |          | ◆      |       |         |       |         |
| *55       | 0300.30            | Intermed. ring 20mm | Diffusore Interm. Ø20 | 2                       |          | ◆      |       |         |       |         |
| *56       | 0009.23            | Teflon ring         | Anello antiestrusione | 2                       |          | ◆      |       |         |       |         |

  Part available  
in kit only

Particolare disponibile  
solo in kit

  Part available  
in kit also

Particolare disponibile  
anche in kit

## SPARE PARTS KIT

## KIT RICAMBI

| Posizioni Item        | Part Number & Description                    | Codice e Descrizione                                     | Q.tà/Pompa<br>Q.ty/Pump | HC165ARL | HC168R | HC170 | HC170RL | HC190 | HC190RL |
|-----------------------|----------------------------------------------|----------------------------------------------------------|-------------------------|----------|--------|-------|---------|-------|---------|
| 3- 5- 6               | 2608.08<br>Plunger "V" Seals 20 mm           | 2608.08<br>Guarniz. pistone "V"Ø20                       | 1                       | ◆        |        | ◆     | ◆       | ◆     | ◆       |
| 3- 52- 54- 56         | 2608.18<br>Plunger "U" Seals 20 mm           | 2608.18<br>Guarniz. pistone "U"Ø20                       | 1                       |          | ◆      |       |         |       |         |
| 2- 3- 4- 5- 6- 7      | 2627.01<br>Complete "V"seal<br>Packing 20 mm | 2627.01<br>Pacco completo "V"<br>Guarnizioni pistone Ø20 | 3                       | ◆        |        | ◆     | ◆       | ◆     | ◆       |
| 2-3-52-53-54-55<br>56 | 2627.03<br>Complete "U"seal<br>Packing 20 mm | 2627.03<br>Pacco completo "U"<br>Guarnizioni pistone Ø20 | 3                       |          | ◆      |       |         |       |         |
| 37-38-39-40-41 42     | 2627.02<br>Plunger 20 mm                     | 2627.02<br>Pistone Ø20                                   | 3                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| 11- 12- 13            | 2600.02<br>Complete Valve                    | 2600.02<br>Valvola completa                              | 6                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |
| 2                     | 2600.03<br>Plunger oil Seals                 | 2600.03<br>Anelli tenuta olio Asta                       | 1                       | ◆        | ◆      | ◆     | ◆       | ◆     | ◆       |