

November / Novembre 2017

# CometNews

## BPS SERIES





# BPS Series: new range of low pressure pumps with 3 to 6 diaphragms

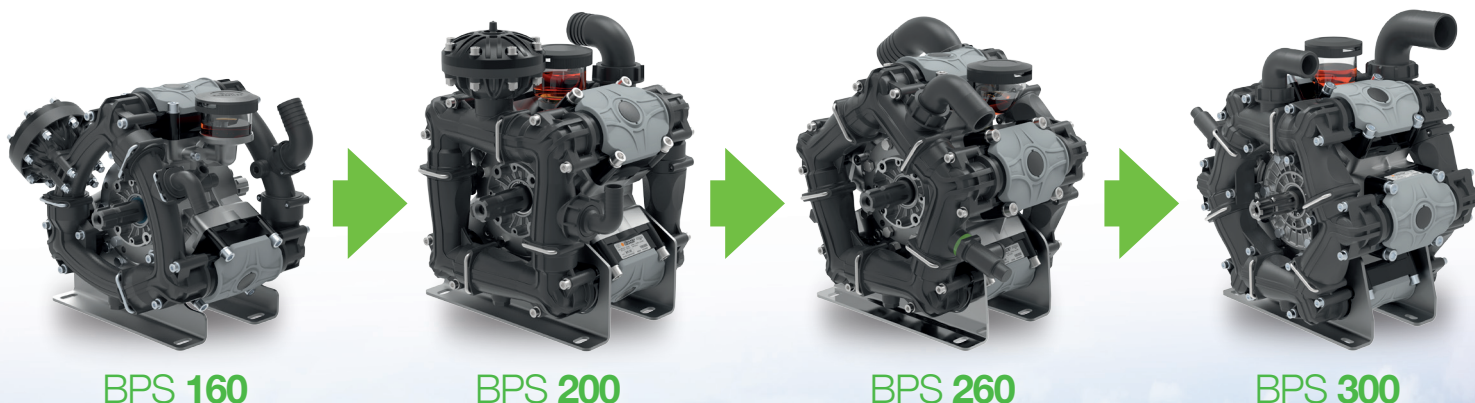
*BPS Series: nuova gamma di pompe a bassa pressione da 3 a 6 membrane*

The BPS line boasts a set of excellent features that are unparalleled in the market: extremely compact size, easy maintenance, long lasting and resistance to the most heavy working conditions whilst always maintaining high performance in terms of flow rate, priming capacity, power absorption and low noise.

The BPS range includes 4 pumps with a maximum pressure of 20 bar and flow rates of 160, 200, 250 and 300 l/min and is designed to equip the most modern and high performance machines with boom sprayers.

*La linea BPS garantisce una serie di caratteristiche di eccellenza senza eguali sul mercato: massima riduzione degli ingombri, facilità di manutenzione, durevolezza, e resistenza alle più dure condizioni di lavoro, mantenendo sempre alte prestazioni in termini di portata, capacità adescante, assorbimenti di potenza e silenziosità.*

*La gamma BPS comprende 4 pompe con pressione massima di 20 bar e portate di 160, 200, 250 e 300 lt/min, destinata ad equipaggiare le più moderne e performanti macchine con barre irroratrici.*



BPS 160

BPS 200

BPS 250

BPS 300



## BPS 160

| RPM<br>Giri/min | 0 bar - 0 psi        |            |                  |     | 5 bar - 72 psi       |            |                  |     | 10 bar - 145 psi     |            |                  |     | 15 bar - 217 psi     |            |                  |     | 20 bar - 290 psi     |            |                  |     | Weight<br>Peso |      |
|-----------------|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------|------|
|                 | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     |                |      |
|                 | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | kg             | lb   |
| 400             | 119                  | 31,4       | 1,0              | 0,7 | 116                  | 30,6       | 1,9              | 1,4 | 113                  | 29,9       | 3,3              | 2,4 | 112                  | 29,6       | 4,6              | 3,4 | 111                  | 29,3       | 5,8              | 4,3 | 30,0           | 66,0 |
| 450             | 134                  | 35,4       | 1,1              | 0,8 | 130                  | 34,3       | 2,3              | 1,7 | 128                  | 33,8       | 3,5              | 2,6 | 126                  | 33,3       | 4,9              | 3,6 | 125                  | 33,0       | 6,8              | 5,0 |                |      |
| 500             | 148                  | 39,1       | 1,2              | 0,9 | 145                  | 38,3       | 2,6              | 1,9 | 142                  | 37,5       | 4,4              | 3,2 | 140                  | 37,0       | 5,8              | 4,3 | 139                  | 36,7       | 7,5              | 5,5 |                |      |
| 550             | 162                  | 42,8       | 1,4              | 1,0 | 159                  | 42,0       | 3,0              | 2,2 | 156                  | 41,2       | 4,9              | 3,6 | 154                  | 40,7       | 6,5              | 4,8 | 153                  | 40,4       | 8,0              | 5,9 |                |      |

## BPS 200

| RPM<br>Giri/min | 0 bar - 0 psi        |            |                  |     | 5 bar - 72 psi       |            |                  |     | 10 bar - 145 psi     |            |                  |     | 15 bar - 217 psi     |            |                  |     | 20 bar - 290 psi     |            |                  |     | Weight<br>Peso |      |
|-----------------|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------|------|
|                 | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     |                |      |
|                 | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | kg             | lb   |
| 400             | 150                  | 39,6       | 1,0              | 0,8 | 148                  | 39,1       | 2,3              | 1,7 | 148                  | 39,1       | 4,0              | 2,9 | 147                  | 38,7       | 5,7              | 4,2 | 145                  | 38,3       | 7,3              | 5,4 | 37,0           | 82,0 |
| 450             | 167                  | 44,0       | 1,2              | 0,9 | 165                  | 43,6       | 2,7              | 2,0 | 165                  | 43,6       | 4,6              | 3,4 | 165                  | 43,6       | 6,6              | 4,9 | 163                  | 43,1       | 8,3              | 6,1 |                |      |
| 500             | 183                  | 48,4       | 1,3              | 1,0 | 183                  | 48,4       | 3,2              | 2,3 | 181                  | 47,9       | 5,1              | 3,8 | 179                  | 47,4       | 7,3              | 5,3 | 179                  | 47,4       | 9,1              | 6,7 |                |      |
| 550             | 199                  | 52,7       | 1,5              | 1,1 | 199                  | 52,7       | 3,6              | 2,7 | 199                  | 52,7       | 5,7              | 4,2 | 197                  | 52,1       | 8,0              | 5,9 | 197                  | 52,1       | 10,3             | 7,6 |                |      |

## BPS 260

| RPM<br>Giri/min | 0 bar - 0 psi        |            |                  |     | 5 bar - 72 psi       |            |                  |     | 10 bar - 145 psi     |            |                  |     | 15 bar - 217 psi     |            |                  |     | 20 bar - 290 psi     |            |                  |     | Weight<br>Peso |      |
|-----------------|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------|------|
|                 | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     |                |      |
|                 | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | kg             | lb   |
| 400             | 187                  | 49,4       | 1,3              | 0,9 | 185                  | 48,9       | 2,8              | 2,1 | 185                  | 48,9       | 5,0              | 3,7 | 183                  | 48,4       | 7,2              | 5,3 | 181                  | 47,9       | 9,1              | 6,7 | 44,0           | 97,0 |
| 450             | 208                  | 55,0       | 1,5              | 1,1 | 206                  | 54,5       | 3,4              | 2,5 | 206                  | 54,5       | 5,8              | 4,2 | 206                  | 54,5       | 8,2              | 6,1 | 204                  | 53,9       | 10,4             | 7,6 |                |      |
| 500             | 229                  | 60,5       | 1,6              | 1,2 | 229                  | 60,5       | 4,0              | 2,9 | 227                  | 59,9       | 6,4              | 4,7 | 224                  | 59,2       | 9,1              | 6,7 | 224                  | 59,2       | 11,4             | 8,4 |                |      |
| 550             | 249                  | 65,9       | 1,9              | 1,4 | 249                  | 65,9       | 4,6              | 3,4 | 249                  | 65,9       | 7,2              | 5,3 | 247                  | 65,2       | 10,0             | 7,0 | 247                  | 65,2       | 12,9             | 9,5 |                |      |

## BPS 300

| RPM<br>Giri/min | 0 bar - 0 psi        |            |                  |     | 5 bar - 72 psi       |            |                  |     | 10 bar - 145 psi     |            |                  |     | 15 bar - 217 psi     |            |                  |     | 20 bar - 290 psi     |            |                  |      | Weight<br>Peso |     |
|-----------------|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|-----|----------------------|------------|------------------|------|----------------|-----|
|                 | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |     | Flow rate<br>Portata |            | Power<br>Potenza |      |                |     |
|                 | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW  | l/min                | U.S.g.p.m. | CV               | kW   | kg             | lb  |
| 400             | 224                  | 59         | 2,3              | 1,7 | 224                  | 59         | 3,4              | 2,5 | 222                  | 59         | 6,0              | 4,4 | 220                  | 58         | 8,6              | 6,3 | 219                  | 58         | 11,0             | 8,1  | 50             | 110 |
| 450             | 250                  | 66         | 3,1              | 2,3 | 250                  | 66         | 4,1              | 3,0 | 248                  | 66         | 6,9              | 5,1 | 246                  | 55         | 9,8              | 7,2 | 245                  | 65         | 12,5             | 9,2  |                |     |
| 500             | 274                  | 72         | 3,9              | 2,9 | 274                  | 72         | 4,8              | 3,5 | 272                  | 72         | 7,8              | 5,7 | 270                  | 71         | 10,9             | 8,0 | 269                  | 71         | 13,7             | 10,1 |                |     |
| 550             | 299                  | 79         | 4,5              | 3,3 | 298                  | 79         | 5,4              | 4,0 | 298                  | 79         | 8,6              | 6,3 | 296                  | 78         | 12,0             | 8,8 | 295                  | 78         | 15,4             | 11,3 |                |     |

## BENEFITS

### BENEFIT

#### EXTREME DURABILITY

Cutting-edge materials, state-of-the art technology and over dimensioned parts combine everlasting performance and extended service intervals, even at the heaviest conditions.

#### DURATA ESTREMA

*Materiali e tecnologia all'avanguardia e componenti sovradimensionati uniscono performance eccellenti a ridotte necessità di manutenzione, anche nelle più estreme condizioni di lavoro.*

#### RESISTANCE TO WORKING CONDITIONS

- › Plastic coated aluminium heads capable to resist corrosion and working pressure up to 20 bar. **(1)**
- › Suction - delivery manifolds and fittings in chemical resistant high-tech polymers. **(2)**
- › Drain plug standard on suction and delivery manifolds, to remove water residuals before winter storage. **(3)**
- › Double coated holders (Cataphoresis - Epoxy). **(4)**

#### RESISTANCE TO WORKING CONDITIONS

- › Testate in alluminio plastificato, in grado di resistere a corrosione e pressioni di lavoro fino a 20 bar. **(1)**
- › Collettori di mandata/aspirazione e raccordi in tecno-polimeri plastici ad alta resistenza chimica. **(2)**
- › Scarico acqua standard su collettori di mandata e aspirazione, per eliminare residui di liquido prima del riposo invernale. **(3)**
- › Piedi con doppia fase di verniciatura (trattamento di Cataforesi e verniciatura epossidica). **(4)**

#### VERSATILITY

- › Shaft plugs available in different options (1" 3/8 splined M or F; 30 mm cyl. etc...) thus getting pump actuated through tractor PTO, hydraulic motor, etc... (see last page).
- › Suction and delivery hose barbs available in fly-nut thread **(5)** or clip coupling version **(6)**.

#### VERSATILITY

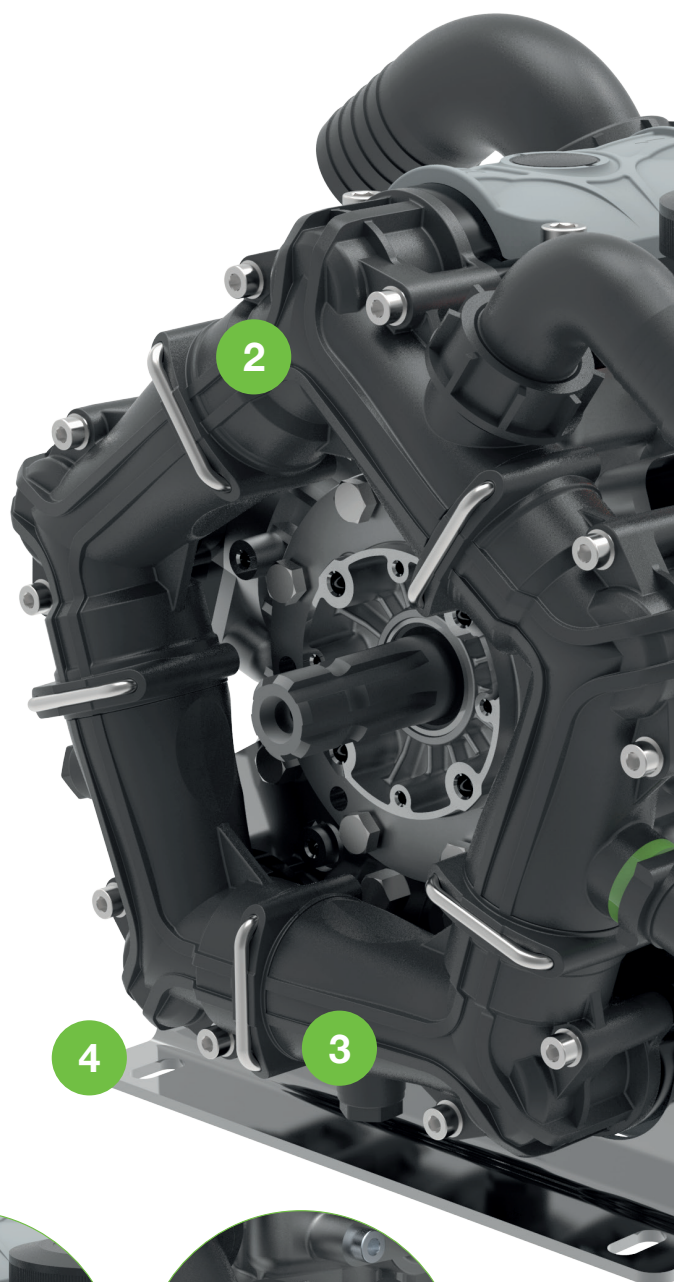
- › Prese di forza in diverse configurazioni (1" 3/8 M o F; 30 mm cil. etc...) in modo da poter attivare la pompa via PTO trattore, motore idraulico, ecc... (vedi ultima pagina).
- › Raccordi di aspirazione e mandata disponibili con attacco a girello **(5)** o a forcilla **(6)**.

#### LOW-MAINTENANCE

Over-sized diaphragms and reduced piston-stroke provide less fatigue on all moving parts, with consequent longer life for diaphragms, check-valves and consumables in general. Diaphragms available in NBR or Desmopan for broad-spectrum chemical-resistance.

#### BASSA MANUTENZIONE

*Membrane sovradimensionate unite a pistoni a corsa ridotta, riducono drasticamente l'affaticamento delle parti in movimento, aumentando conseguentemente la vita utile di membrane, valvole e parti di consumo in generale.*





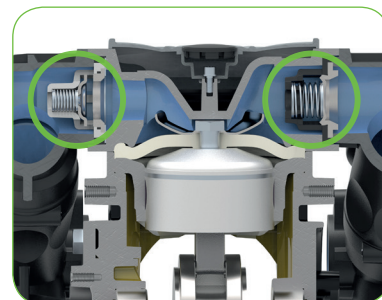


## PERFORMANCE

Stainless steel – technopolymer check-valves with innovative fluid slots and specific spring loads grant maximum priming capacity, flow-rate accuracy and shut-off speed.

## PERFORMANCE

*Le valvole uni-direzionali in acciaio inox-tecnopolimero, grazie a innovativi sistemi di scorrimento del fluido e molle di chiusura a carico specifico, permettono di massimizzare capacità adescante, accuratezza di portata e velocità di chiusura*

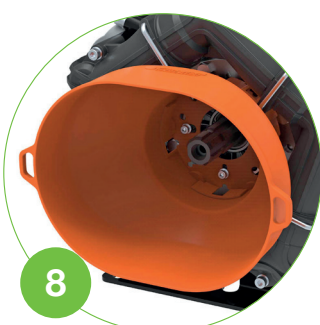
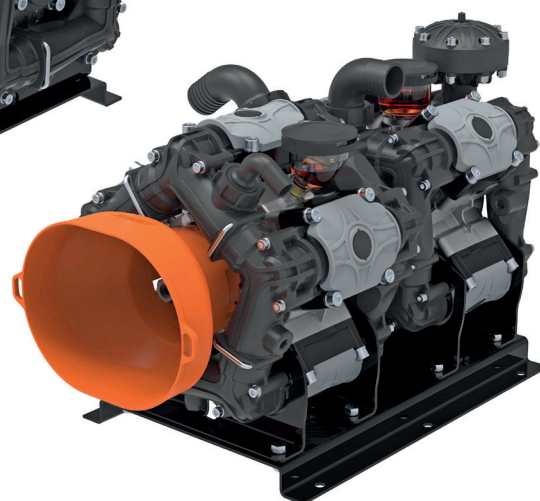
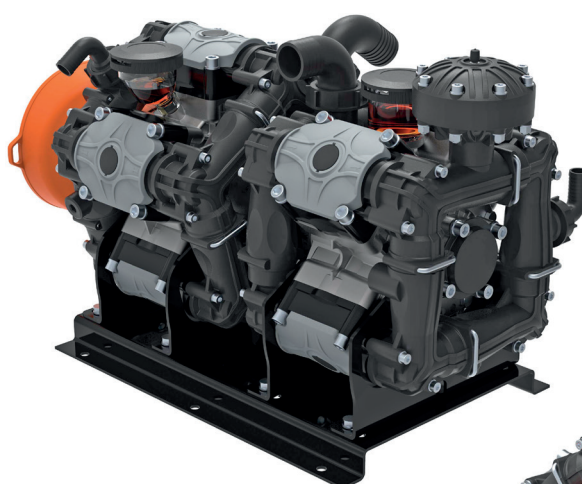
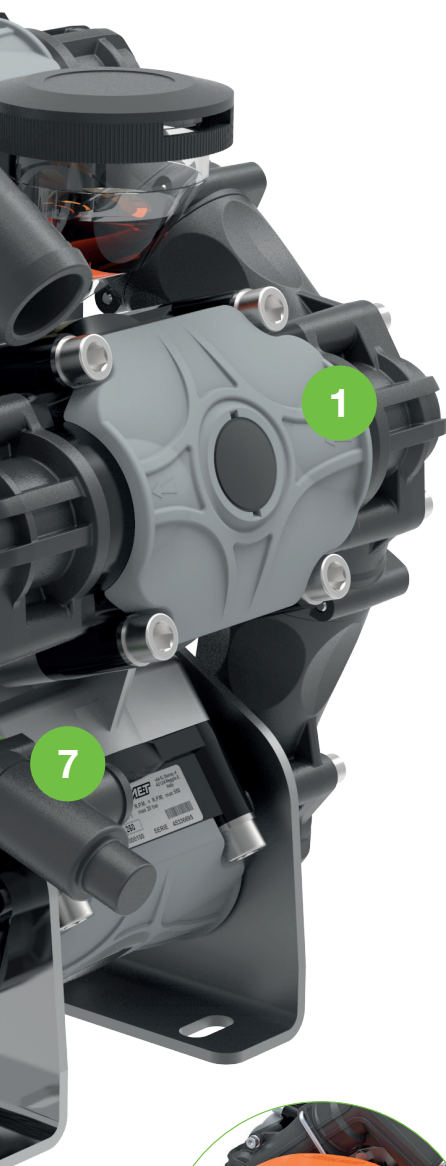


## MODULARITY

Pumps are couplable in “tandem” to expand flow rate capacity or multi-purpose applications (spraying/agitation/rinsing/constant recirculation).

## MODULARITY

*Le pompe sono abbinabili in tandem per aumentare la portata o ottenere applicazioni multiple in sincrono (irrorazione/agitazione/ricircolo costante).*



## SAFETY

Pumps are equipable on demand with:

- overpressure safety valve (7)
- PTO shaft guards (mandatory within EU) (8)
- Pressure damper (standard on BPS160 and 200) (9)

## SAFETY

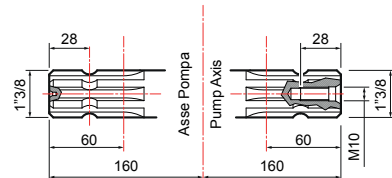
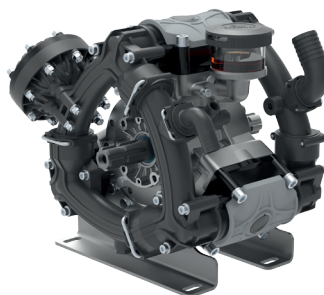
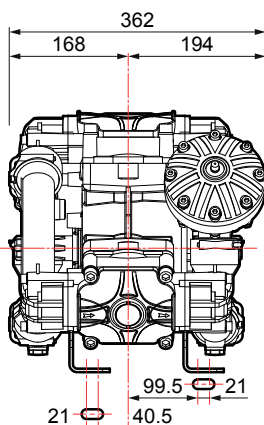
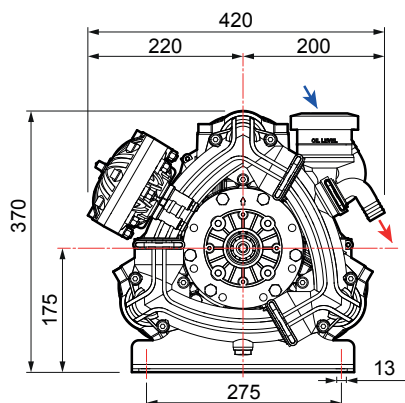
*Le pompe sono equipaggiabili a richiesta con:*

- valvola di sicurezza (7)
- protezioni cardano (obbligatorie in UE) (8)
- accumulatore di pressione (standard sulle BPS160 e 200) (9)

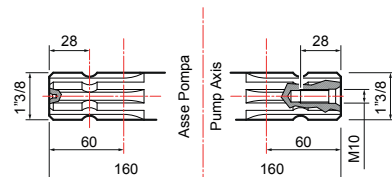
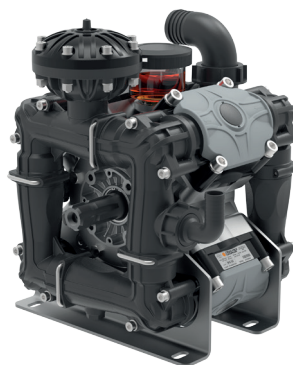
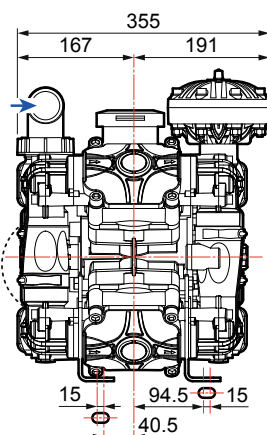
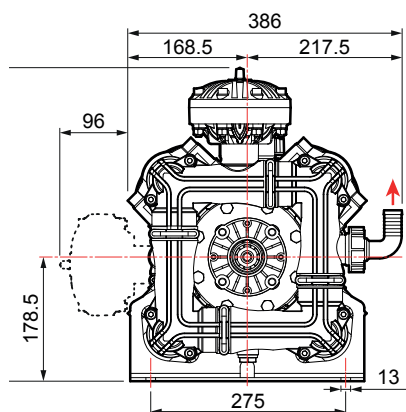
# BPS SERIES

1" 3/8 – 1" 3/8 SOLID-SOLID SHAFT  
ALBERO MASCHIO-MASCHIO 1"3/8 - 1"3/8

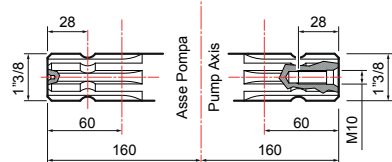
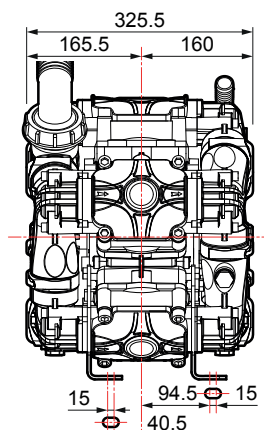
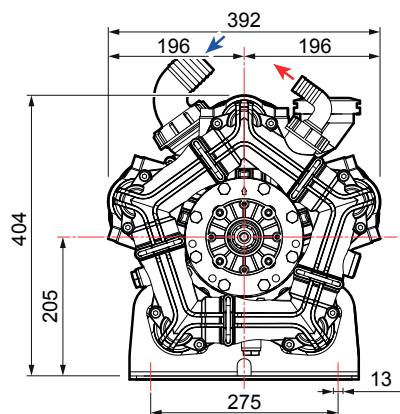
**BPS 160**



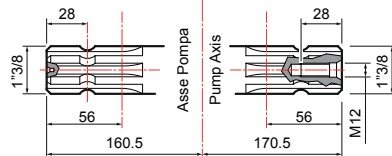
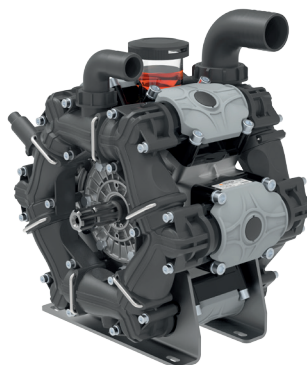
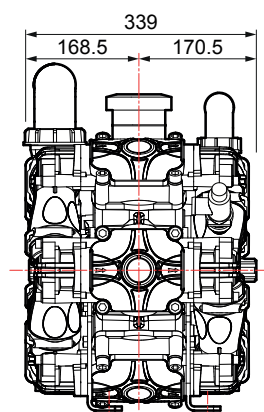
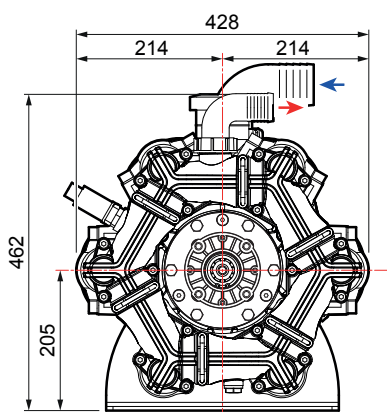
**BPS 200**



**BPS 260**



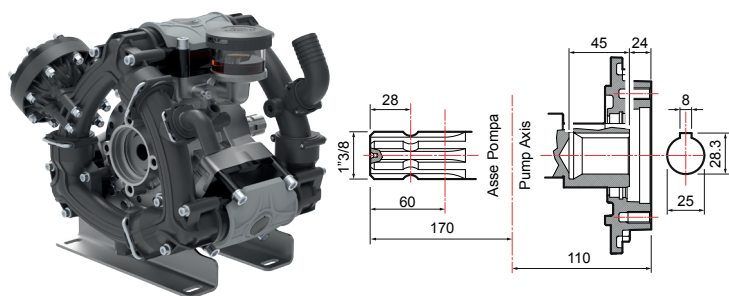
**BPS 300**





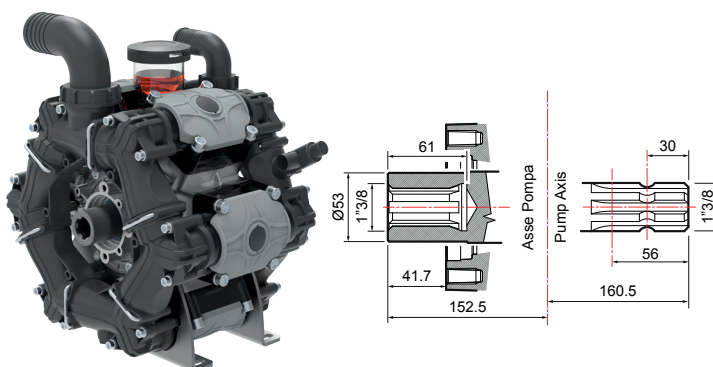
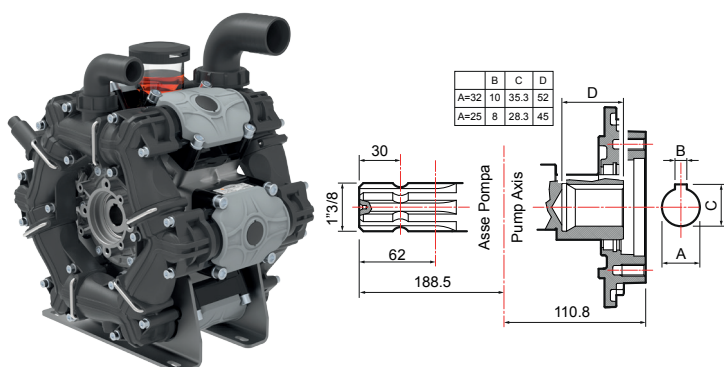
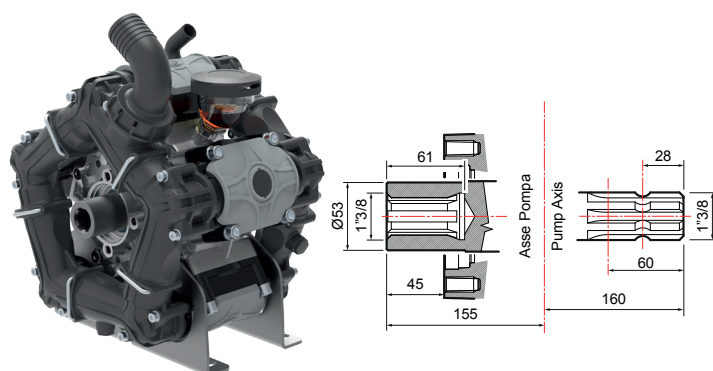
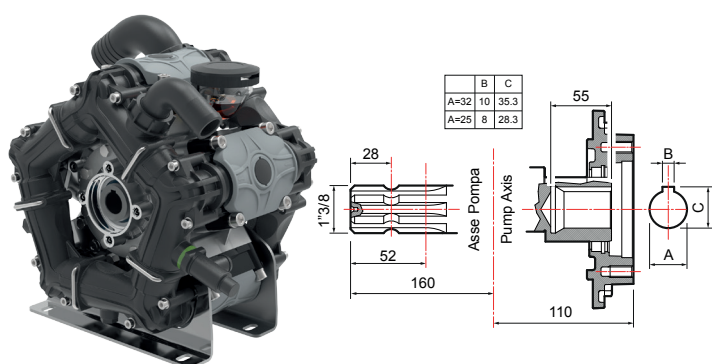
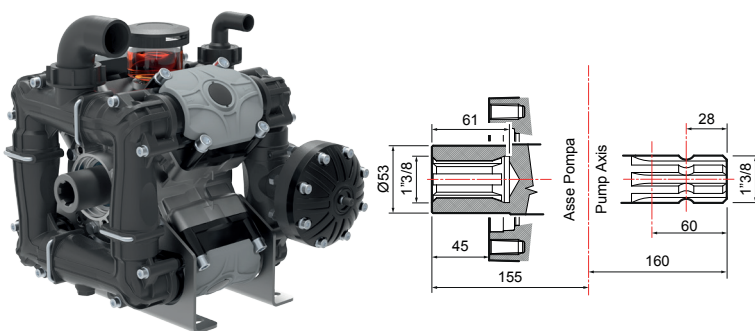
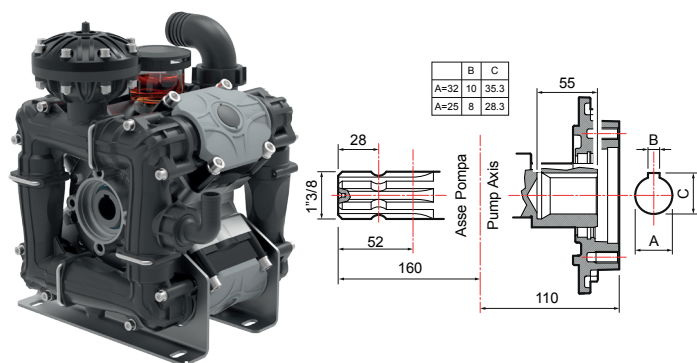
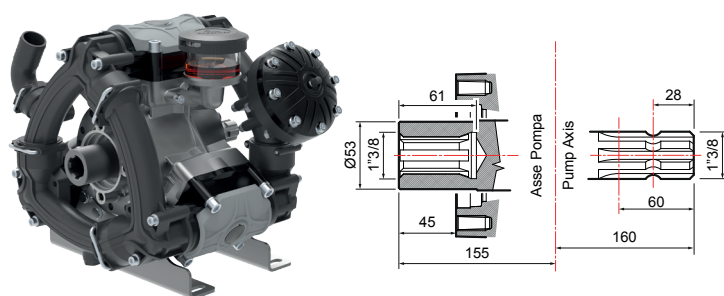
## 1" 3/8 – Ø25/32 SOLID-HOLLOW SHAFT

### ALBERO MASCHIO-FEMMINA 1"3/8 - Ø25/32



## 1" 3/8 – 1" 3/8 HOLLOW-SOLID SHAFT

### ALBERO FEMMINA-MASCHIO 1"3/8 - 1"3/8



**Applications on 1" 3/8 - 1" 3/8  
Solid Shaft Version**

*Applicazioni su Versione  
Albero Maschio 1"3/8 - 1"3/8*



Hydraulic motor on the delivery side using a special Bracket

*Motore idraulico su lato mandata tramite  
Supporto speciale*

**Applications on 1" 3/8 - 25/32mm Ø  
Solid-Hollow Shaft Version**

*Applicazioni su Versione Albero  
Maschio-Femmina 1"3/8 - Ø25/32mm*



Hydraulic motor flanged directly on the delivery side

*Motore idraulico direttamente flangiato  
su lato mandata*

**Applications on 1" 3/8 - 1" 3/8  
Hollow-Solid Shaft Version**

*Applicazioni su Versione Albero  
Femmina-Maschio 1"3/8 - 1"3/8*



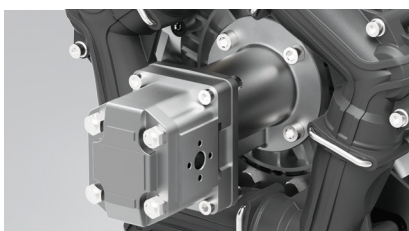
Hydraulic motor on the delivery side using a special Bracket

*Motore idraulico su lato mandata tramite  
Supporto speciale*



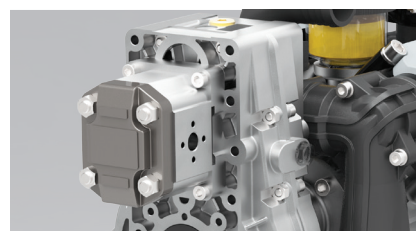
Hydraulic pump on the suction side using a special Bracket

*Pompa idraulica su lato aspirazione tramite  
Supporto speciale*



Hydraulic pump on the suction side using a special Bracket

*Pompa idraulica su lato aspirazione tramite  
Supporto speciale*



Overgear box for the Hydraulic pump on the suction side using a special Bracket

*Moltiplicatore per Pompa idraulica su lato  
aspirazione tramite Supporto speciale*

# CometNews

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