

3GP Series



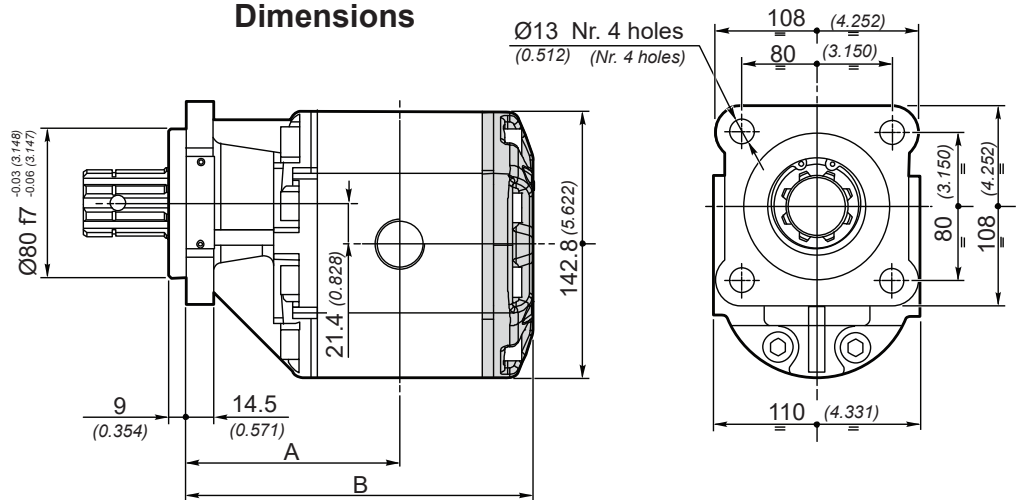
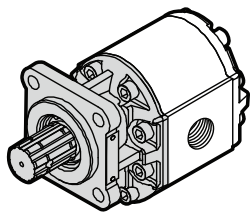
Gear Pumps with Cast Iron Flange and Cover

DIMENSIONAL DETAILS

| GROUP 3GP | DISPLACEMENT | | MAX. WORKING PRESSURE | | | | | | MAX. SPEED | MAX. FLOW | | MIN. SPEED | MIN. FLOW | |
|--------------|--------------------------|--------------------------|-----------------------|------|-----|------|-----|------|---------------|-----------|-------------|---------------|-------------|-------|
| | CM ³ / REV | IN ³ / REV | P1 | | P2 | | P3 | | | l/min | Gal/ min | | min- rpm | l/min |
| | | | bar | psi | bar | psi | bar | psi | min - rpm | | | l/min | | |
| 3GP 190 | 19.3 | 1.2 | 250 | 3625 | 270 | 3915 | 300 | 4350 | 3500 | 67.6 | 17.84 | 700 | 12.8 | 3.39 |
| 3GP 230 | 23.0 | 1.4 | 240 | 3480 | 260 | 3770 | 290 | 4205 | 3500 | 80.3 | 21.22 | 700 | 15.5 | 4.03 |
| 3GP 300 | 30.2 | 1.8 | 220 | 3190 | 240 | 3480 | 260 | 3770 | 3300 | 99.7 | 26.33 | 700 | 20.1 | 5.31 |
| 3GP 340 | 33.8 | 2.1 | 220 | 3190 | 230 | 3335 | 260 | 3770 | 3300 | 111.6 | 29.49 | 700 | 22.5 | 5.94 |
| 3GP 370 | 37.5 | 2.3 | 210 | 3045 | 230 | 3335 | 250 | 3625 | 3300 | 123.6 | 32.66 | 700 | 24.9 | 6.58 |
| 3GP 440 | 44.6 | 2.7 | 200 | 2900 | 220 | 3190 | 240 | 3480 | 3000 | 133.8 | 35.35 | 700 | 29.7 | 7.84 |
| 3GP 530 | 53.0 | 3.2 | 200 | 2900 | 210 | 3045 | 240 | 3480 | 3000 | 159.1 | 42.04 | 700 | 35.3 | 9.32 |
| 3GP 620 | 62.7 | 3.8 | 180 | 2610 | 190 | 2755 | 200 | 2900 | 2500 | 156.8 | 41.41 | 700 | 41.7 | 11.01 |
| 3GP 700 | 70.5 | 4.3 | 180 | 2610 | 200 | 2900 | 208 | 3016 | 2500 | 176.3 | 46.58 | 700 | 46.9 | 12.39 |
| 3GP 770 | 77.2 | 4.7 | 170 | 2465 | 190 | 2755 | 196 | 2842 | 2200 | 169.8 | 44.84 | 700 | 51.3 | 13.56 |

Minimum Volumetric Efficiency 95% for all models

Dimensions



| GROUP 3 | A | | B | | WEIGHT | |
|---------|-------|--------|-------|-------|--------|-------|
| | mm | inches | mm | inch | kg | lbs |
| 3GP 190 | 110.5 | 4.350 | 1.774 | 6.984 | 7.67 | 16.91 |
| 3GP 230 | 112.0 | 4.409 | 180.4 | 7.102 | 7.81 | 17.21 |
| 3GP 300 | 115.0 | 4.527 | 186.4 | 7.338 | 8.09 | 17.82 |
| 3GP 340 | 116.5 | 4.586 | 189.4 | 7.456 | 8.22 | 18.12 |
| 3GP 370 | 118.0 | 4.645 | 192.4 | 7.574 | 8.36 | 18.43 |
| 3GP 440 | 121.0 | 4.763 | 198.4 | 7.811 | 8.64 | 19.04 |
| 3GP 530 | 124.5 | 4.901 | 205.4 | 8.086 | 8.96 | 19.75 |
| 3GP 620 | 128.5 | 5.059 | 213.4 | 8.401 | 9.33 | 20.56 |
| 3GP 700 | 131.7 | 5.185 | 219.9 | 8.657 | 9.63 | 21.22 |
| 3GP 770 | 134.5 | 5.295 | 225.4 | 8.874 | 9.88 | 21.77 |

3GP Series

Gear Pumps with Cast Iron Flange and Cover



HOW TO ORDER

3GP - G - 340 - D - EUR - B - N - 10 - 0 - G

| CODE | TYPE | DESCRIPTION |
|------------|---------------------------|--|
| 3GP | Pump Type | Single pump group 3 |
| G | Flange and cover material | G = Cast Iron |
| 340 | Displacement | Displacement = 2.1 in ³ /rev |
| D | Rotation | D = Clockwise rotation S = Anticlockwise rotation |
| EUR | Flange type | European standard flange |
| B | Seal ring type | See compatibility table |
| N | Gasket type | N = NBR V = Viton |
| 10 | Shaft type | See compatibility table |
| 0 | Connection position | See compatibility table |
| G | Connection type | See compatibility table |







3GP Series



Gear Pumps with Cast Iron Flange and Cover

Flange Type





| 3GP | EUR | SAEB | SAEBOR | ZFC |
|----------------|---|---|---|---|
| |  |  |  |  |
| A Aluminium | Not Available | Not Available | Not Available | Not Available |
| G Cast Iron | ◇ | ◇ | ◇ | ◇ |

◇ = Standard Combination

Seal Ring

| Code | Type | Description |
|----------|---------------------------|--|
| B | Sealing ring up to 3 bar | For very low pressure |
| H | Sealing ring up to 8 bar | For very low pressure (with firm seal) |
| K | Sealing ring up to 30 bar | For high pressure |

Flange ~ Seal Ring ~ Gasket Combination

| 3GP | EUR | | | SAEB | | | SAEBOR | | | ZFC |
|---------|---|---|---|---|---|---|---|---|---|---|
| |  | | |  | | |  | | |  |
| | Seal Ring | | | Seal Ring | | | Seal Ring | | | Seal Ring |
| | B | H | K | B | H | K | B | H | K | B |
| NBR N | ◇ | ◇ | ◇ | ◇ | ◇ | ◇ | ◇ | ◇ | ◇ | ◇ |
| Viton V | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

◇ = Standard Combination ● = Available Combination

Example: **3GP - G - 340 - D - EUR - B - N - 10 - 0 - G**





EUR = European Flange _____
 B = Seal Ring up to 3 bar _____
 N = NBR O-ring _____

3GP Series

Gear Pumps with Cast Iron Flange and Cover



Shaft ~ Flange Combination

| 3GP | EUR | SAEB | SAEBOR | ZFC |
|---|---|---|---|---|
| |  |  |  |  |
| 10 Tapered 1:8 | ◇ | ● | ● | |
| 13 SAEB Parallel Shaft | ● | ◇ | ◇ | |
| 14 SAEB 13T Splined (38.2) | ● | ◇ | ◇ | |
| 14R SAEB 13T Splined (44.7) | ● | ● | ● | |
| 24 UNI8953 Splin | | | | ◇ |
| ◇ = Standard Combination ● = Available Combination | | | | |

3GP Series

Gear Pumps with Cast Iron Flange and Cover



Shaft Dimensions

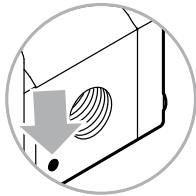
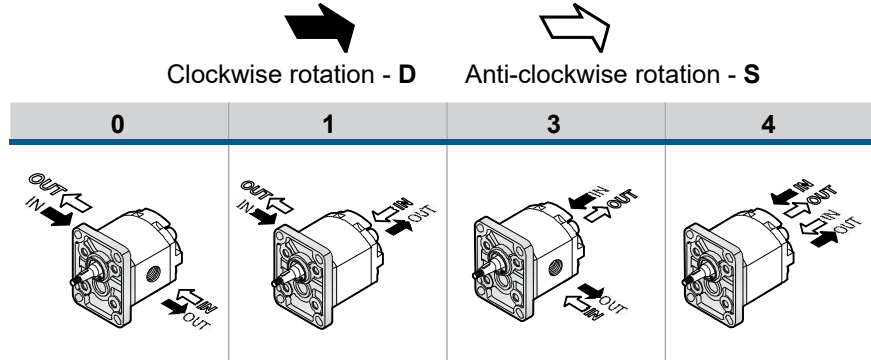
| | |
|---|---|
| <p>10 Tapered 1:8</p> <p>Torque 240 Nm 178 ft lbs</p> | <p>Available for: EUR - SAEB - SAEBOR</p> |
| <p>13 SAEB Parallel Shaft</p> <p>Torque 200 Nm 148 ft lbs</p> | <p>Available for: EUR - SAEB - SAEBOR</p> |
| <p>14 SAEB 13T Splined (38.2)</p> <p>Torque 270 Nm 200 ft lbs</p> | <p>Splined profile 7/8" SAE 16/32 DP nr. of teeth = 13</p> <p>Available for: EUR - SAEB - SAEBOR</p> |
| <p>14R SAEB 13T Splined (44.7)</p> <p>Torque 270 Nm 200 ft lbs</p> | <p>Splined profile 7/8" SAE 16/32 DP nr. of teeth = 13</p> <p>Available for: EUR - SAEB - SAEBOR</p> |
| <p>24 UNI8953 Splined</p> <p>Torque 330 Nm 245 ft lbs</p> | <p>Available for: ZFC</p> |

3GP Series

Gear Pumps with Cast Iron Flange and Cover



Connection Position



The sign on the body identifies the suction side for the pumps.

IN = SUCTION
OUT = DELIVERY

Connection Type

The connection types shown correspond to standard configuration; for different applications please contact our Sales Dept.

| 3GP | | Connection Position | | | |
|---------|---|---------------------|---|---|---|
| | | 0 | 1 | 3 | 4 |
| GAS | G | ◇ | ◇ | ◇ | ◇ |
| UNF | W | ◇ | ◇ | ◇ | ◇ |
| Flanged | T | ◇ | | | |
| | N | ◇ | | | |
| | F | ◇ | | | |

| GAS | UNI ISO 228/1 | CODE | CYL DISPL. | SUCTION IN | | | DELIVERY OUT | | |
|-----|---------------|------|------------|------------|-----------------------|-------------------------|--------------|-----------------------|-------------------------|
| | | | | A | B | | A | B | |
| | G | G | 190 | G 1" | 20 [mm] 0.788 [in] | 70 [Nm] 620 [in lbs] | G 3/4" | 17 [mm] 0.670 [in] | 60 [Nm] 531 [in lbs] |
| | | | 230 | | | | | | |
| | | | 300 | | | | | | |
| | | | 340 | | | | | | |
| | | | 370 | | | | | | |
| | | | 440 | | | | | | |
| | | | 530 | G 1-1/4" | 20 [mm] 0.788 [in] | 80 [Nm] 709 [in lbs] | G 1" | 20 [mm] 0.788 [in] | 70 [Nm] 620 [in lbs] |
| | | | 630 | | | | | | |
| | | | 700 | | | | | | |
| | | | 770 | | | | | | |

3GP Series



Gear Pumps with Cast Iron Flange and Cover

| UNF | ANSI/ASME B1.1 | CODE | CYL DISPL. | SUCTION IN | | | DELIVERY OUT | | |
|-----|-------------------|------|----------------------------|-----------------------|-------------------------|-------------------------|-----------------------|-------------------------|--|
| | | | | A | B | | A | B | |
| | W | 190 | SAE 16 1-5/16"-12 UN | 20 [mm] 0.788 [in] | 70 [Nm] 620 [in lbs] | SAE 12 1-1/16"-12 UN | 20 [mm] 0.788 [in] | 60 [Nm] 531 [in lbs] | |
| | | 230 | | | | | | | |
| | | 300 | | | | | | | |
| | | 340 | SAE 20 1-5/8"-12 UN | 20 [mm] 0.788 [in] | 80 [Nm] 709 [in lbs] | SAE 16 1-5/16"-12 UN | 20 [mm] 0.788 [in] | 70 [Nm] 620 [in lbs] | |
| | | 370 | | | | | | | |
| | | 440 | | | | | | | |
| | | 530 | | | | | | | |
| | | 630 | | | | | | | |
| | | 700 | SAE 24 1-7/8"-12 UN | 20 [mm] 0.788 [in] | 90 [Nm] 798 [in lbs] | SAE 20 1-5/8"-12 UN | 20 [mm] 0.788 [in] | 80 [Nm] 709 [in lbs] | |
| 770 | | | | | | | | | |

| Flanged | ISO/R 262 | CODE | CYL DISPL. | SUCTION IN | | | | | DELIVERY OUT | | | | |
|---------|--------------|------|-----------------------------|-----------------------------|-----|-----------------------------|-------------------------------|-----------------------------|-----------------------------|----|-----------------------------|-------------------------------|--|
| | | | | A | B | C | D | | A | B | C | D | |
| | T | 190 | 26 [mm] 1.024 [in] | 55 [mm] 2.167 [in] | M8 | 16 [mm] 0.630 [in] | 15 [Nm] 133 [in lbs] | 18 [mm] 0.709 [in] | 55 [mm] 2.167 [in] | M8 | 16 [mm] 0.630 [in] | 15 [Nm] 133 [in lbs] | |
| | | 230 | | | | | | | | | | | |
| | | 300 | | | | | | | | | | | |
| | | 340 | | | | | | | | | | | |
| | | 370 | | | | | | | | | | | |
| | | 440 | | | | | | | | | | | |
| | | 530 | | | | | | | | | | | |
| | | 630 | | | | | | | | | | | |
| | | 700 | | | | | | | | | | | |
| 770 | | | | | | | | | | | | | |
| | N | 190 | 27 [mm] 1.064 [in] | 51 [mm] 2.009 [in] | M10 | 15 [mm] 0.591 [in] | 20 [Nm] 177 [in lbs] | 19 [mm] 0.748 [in] | 40 [mm] 1.575 [in] | M8 | 15 [mm] 0.591 [in] | 15 [Nm] 71 [in lbs] | |
| | | 230 | | | | | | | | | | | |
| | | 300 | | | | | | | | | | | |
| | | 340 | | | | | | | | | | | |
| | | 370 | | | | | | | | | | | |
| | | 440 | | | | | | | | | | | |
| | | 530 | | | | | | | | | | | |
| | | 630 | | | | | | | | | | | |
| | | 700 | | | | | | | | | | | |
| 770 | | | | | | | | | | | | | |

| Flanged | ISO/R 262 | CODE | CYL DISPL. | SUCTION IN | | | | | DELIVERY OUT | | | | | |
|---------|--------------|------|-----------------------------|-------------------------------|-------------------------------|----|-----------------------------|------------------------------|-----------------------------|-------------------------------|-------------------------------|----|-----------------------------|------------------------------|
| | | | | A | B | C | D | E | | A | B | C | D | E |
| | F | 190 | 27 [mm] 1.063 [in] | 26.2 [mm] 1.031 [in] | 52.4 [mm] 2.063 [in] | M8 | 15 [mm] 0.591 [in] | 15 [Nm] 71 [in lbs] | 24 [mm] 0.945 [in] | 26.2 [mm] 1.031 [in] | 52.4 [mm] 2.063 [in] | M8 | 15 [mm] 0.591 [in] | 15 [Nm] 71 [in lbs] |
| | | 230 | | | | | | | | | | | | |
| | | 300 | | | | | | | | | | | | |
| | | 340 | 42 [mm] 1.654 [in] | 69.8 [mm] 2.748 [in] | 35.6 [mm] 1.402 [in] | M8 | 15 [mm] 0.591 [in] | 15 [Nm] 71 [in lbs] | 24 [mm] 0.945 [in] | 26.2 [mm] 1.031 [in] | 52.4 [mm] 2.063 [in] | M8 | 15 [mm] 0.591 [in] | 15 [Nm] 71 [in lbs] |
| | | 370 | | | | | | | | | | | | |
| | | 440 | | | | | | | | | | | | |
| | | 530 | | | | | | | | | | | | |
| | | 630 | | | | | | | | | | | | |
| | | 700 | | | | | | | | | | | | |
| 770 | | | | | | | | | | | | | | |