



**Vertical Multistage Pumps  
KO and KO-ST Series**



## KO Series

High quality and efficient vertical multi-stage centrifugal pumps with compact construction. Highly preferred with its small footprint in booster systems and connection style as overlaying (inlet at the bottom and outlet at top) occupying space at floor.

### Fields of Use

- Pressurized water supply in residential and commercial buildings
- Garden irrigation systems
- Clean water transfer

### Pump Specifications

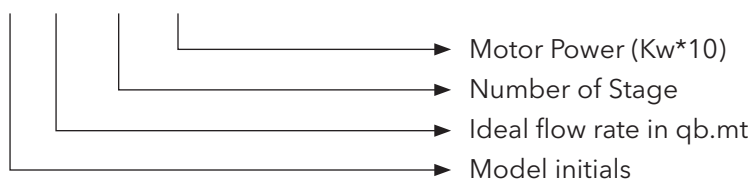
- Pump Body : GG25 Cast Iron
- Impeller & Diffuser : Noryl
- Pump Shaft : AISI 420 Stainless Steel
- Mechanical Seal : Carbon / Ceramic / EPDM

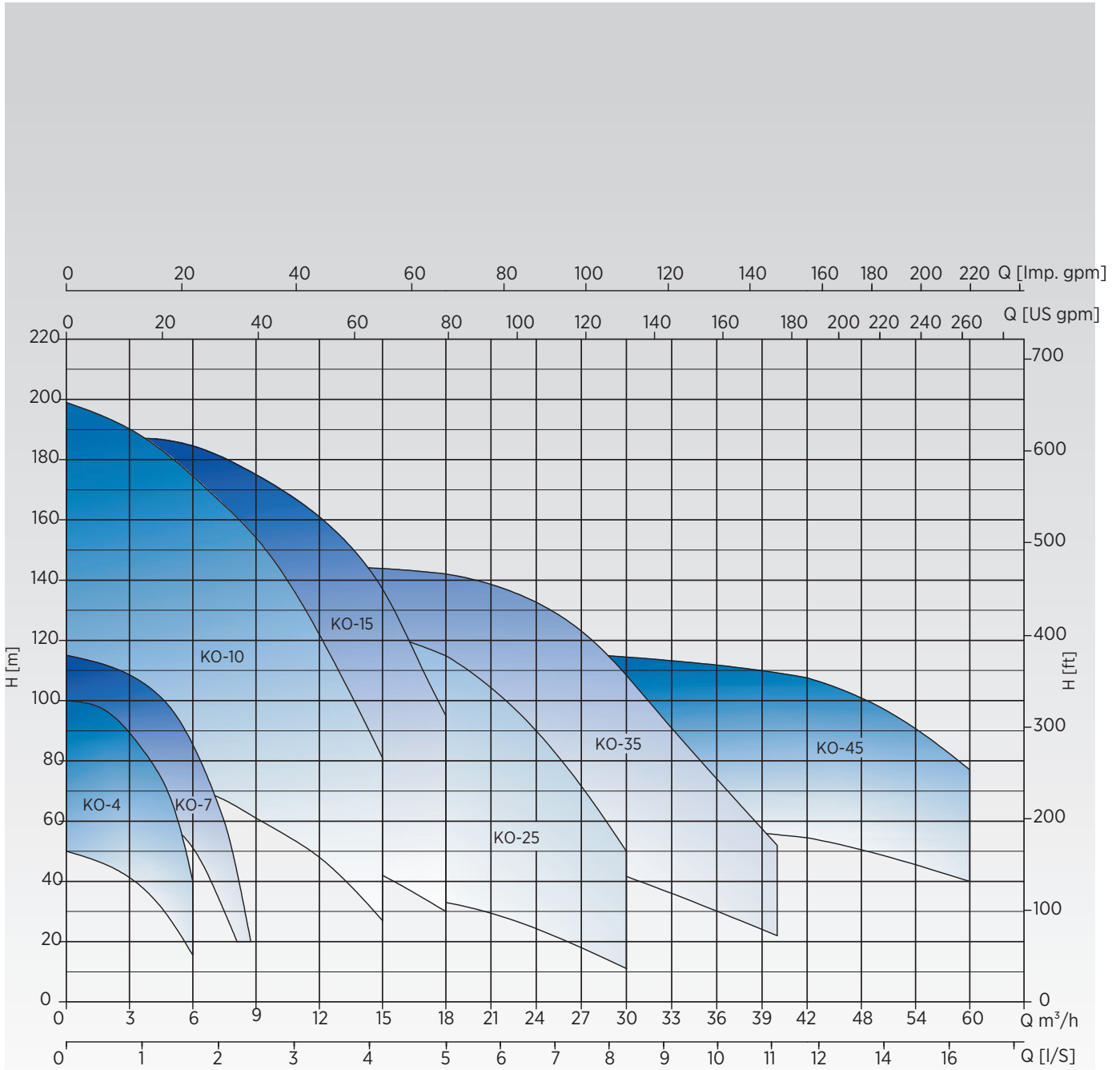
### Technical Specifications

- Maximum Flow : 60 m<sup>3</sup>/h
- Maximum Pressure : 200 mwc
- Inlet-Outlet Diameter : 1" & 3"
- Pressure Class : PN25
- Max. Ambient Temperature : 40°C
- Fluid Temperature : 0 - 40°C
- Fluid Property : Clean, solid particle-free, chemically neutral water
- Motor Speed : 2900 rpm
- Network Connection : 3\*380V, 50Hz
- Motor Power : 0,75 - 22,5 kW
- Protection Class : IP55
- Insulation Class : F

## Identification Code

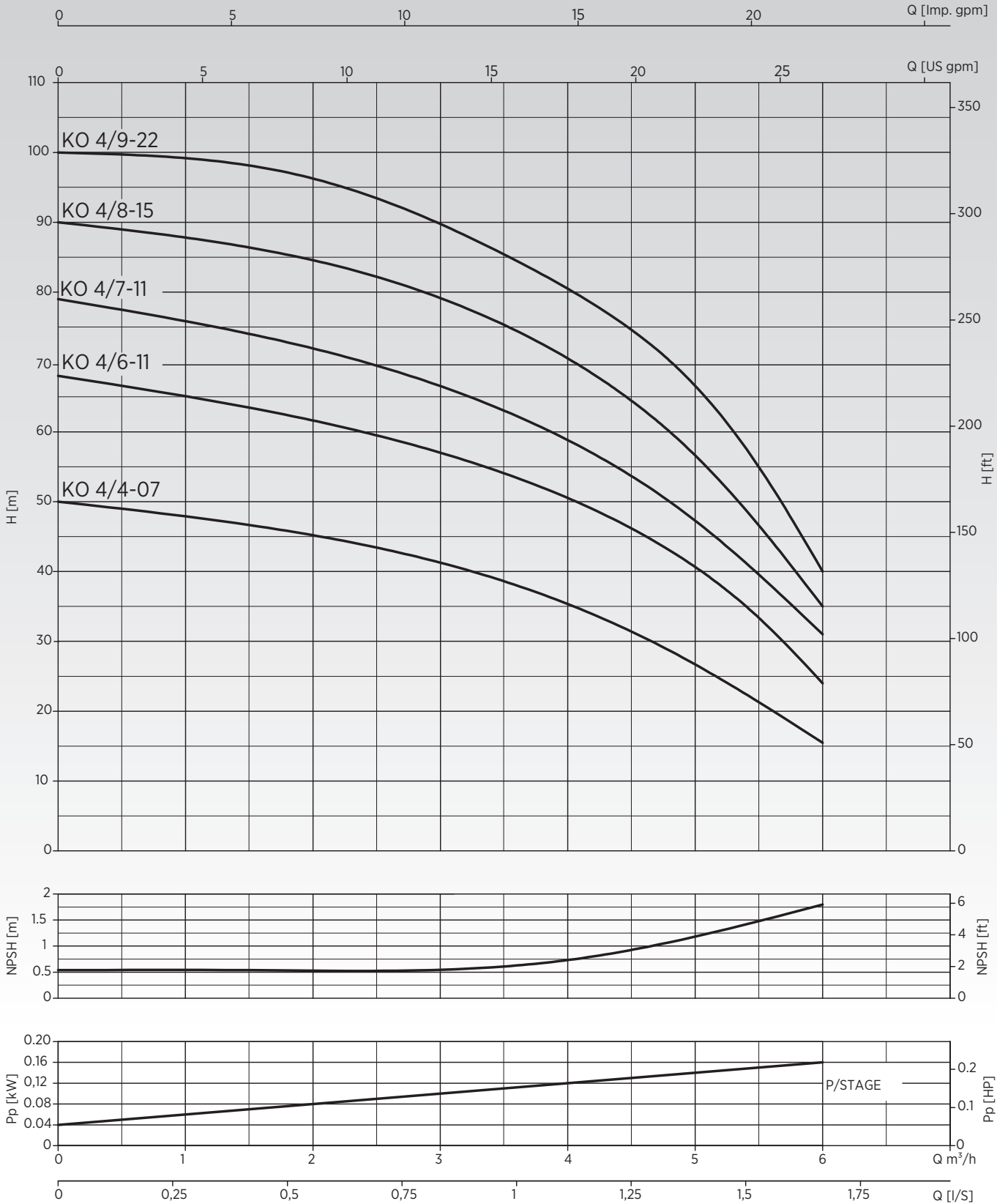
**KO 10 / 7 / 30**





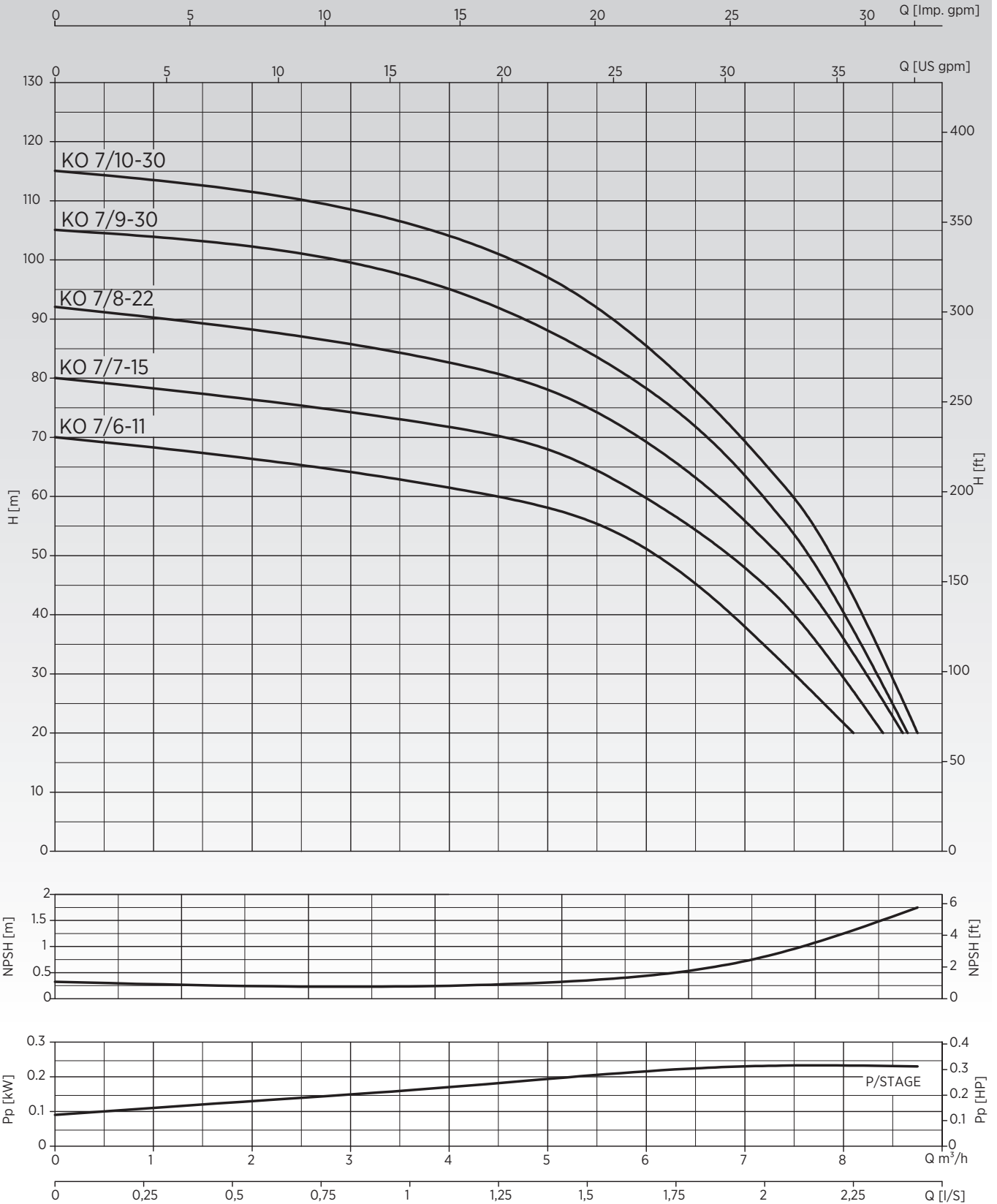
# KO Series Performance Curves

## KO 4 Series



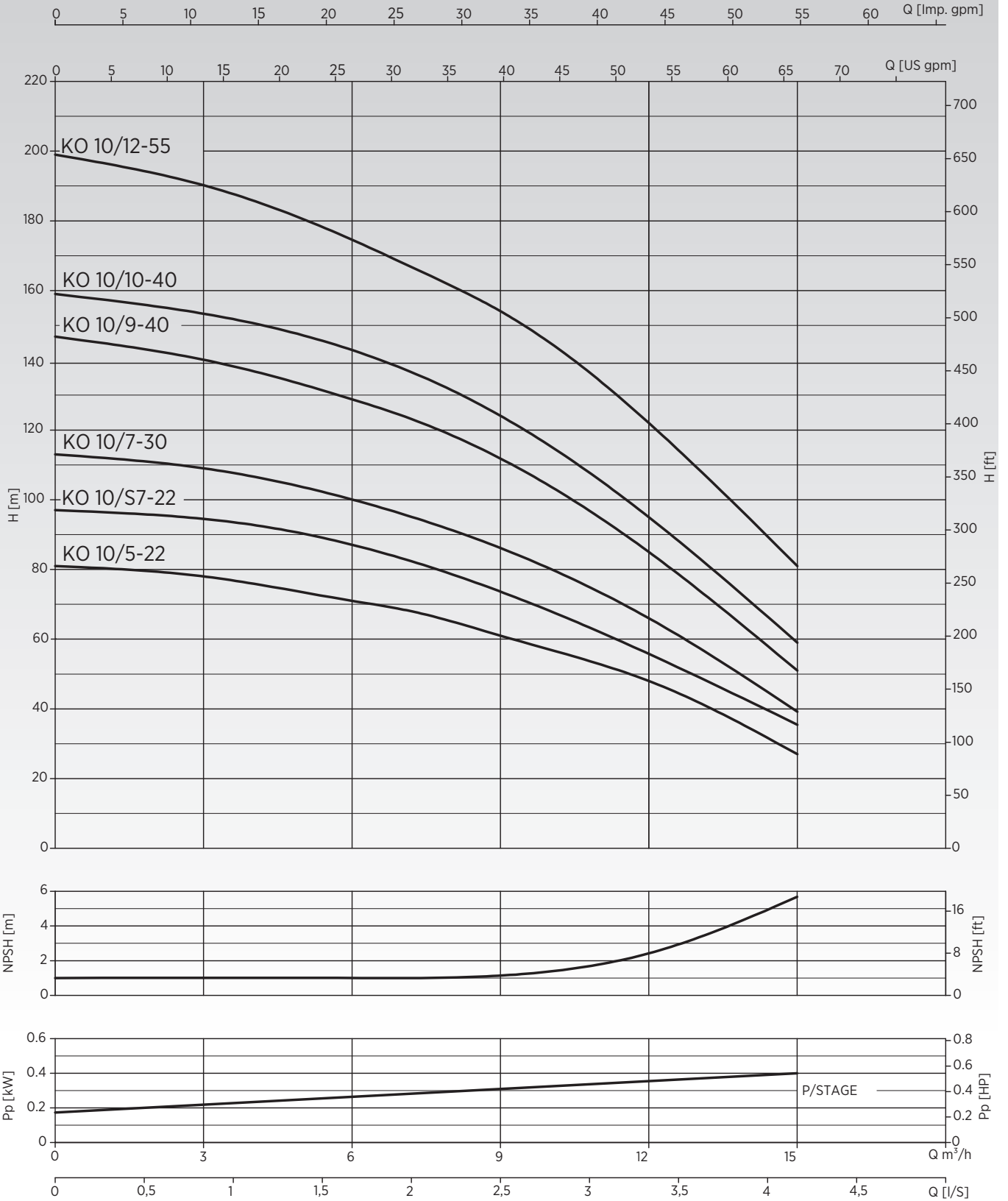


## KO 7 Series

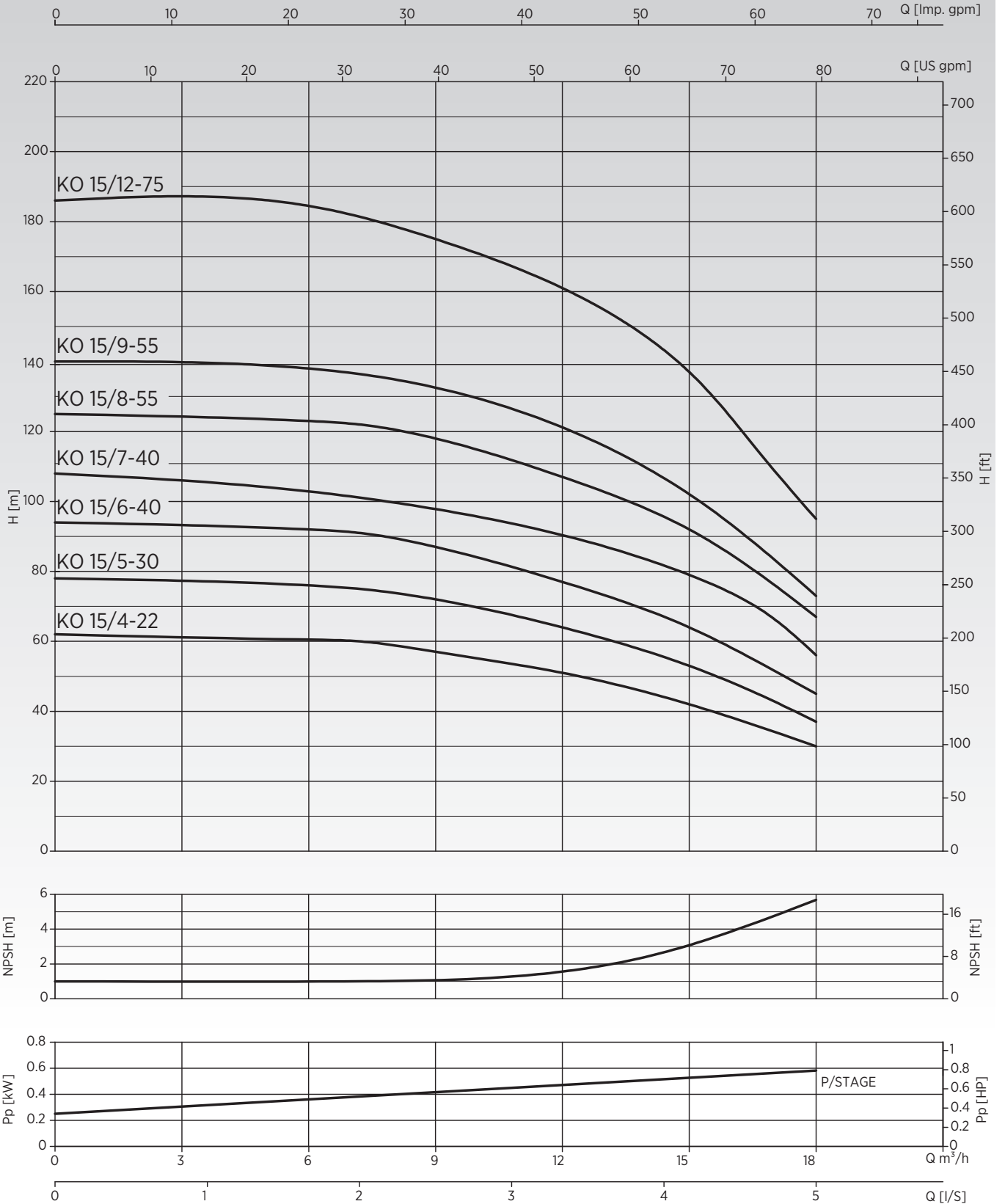


# KO Series Performance Curves

## KO 10 Series

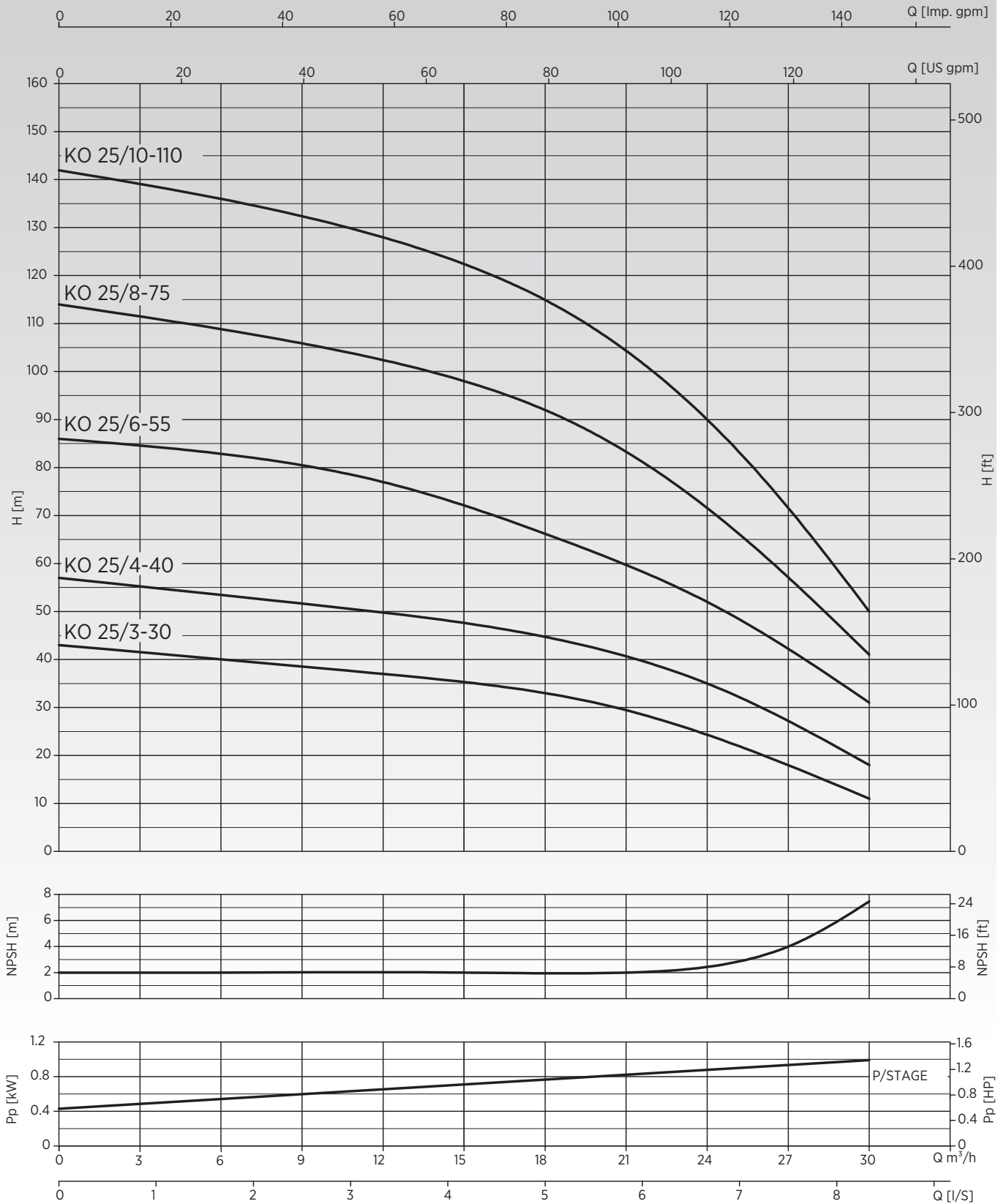


## KO 15 Series



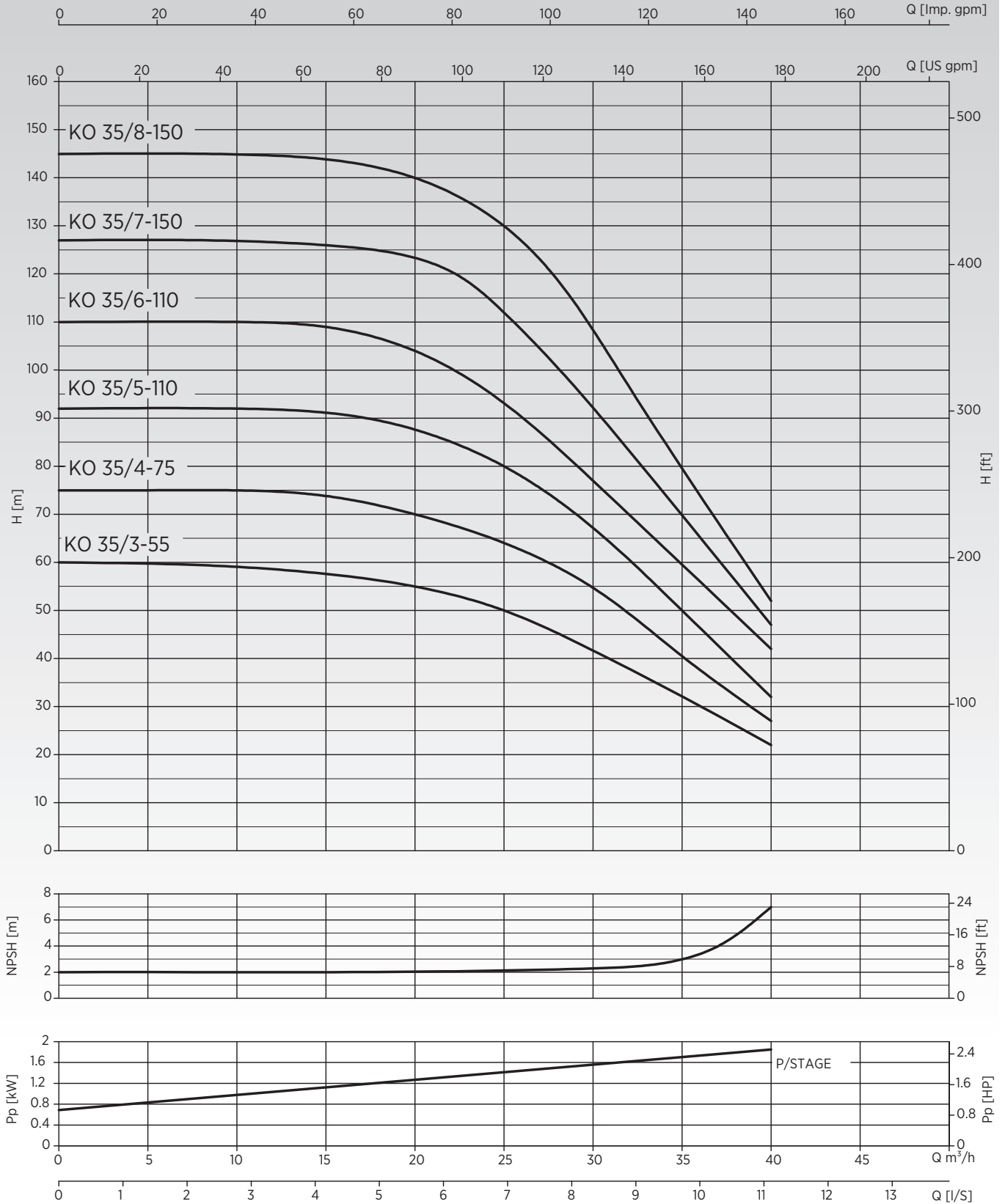
# KO Series Performance Curves

## KO 25 Series



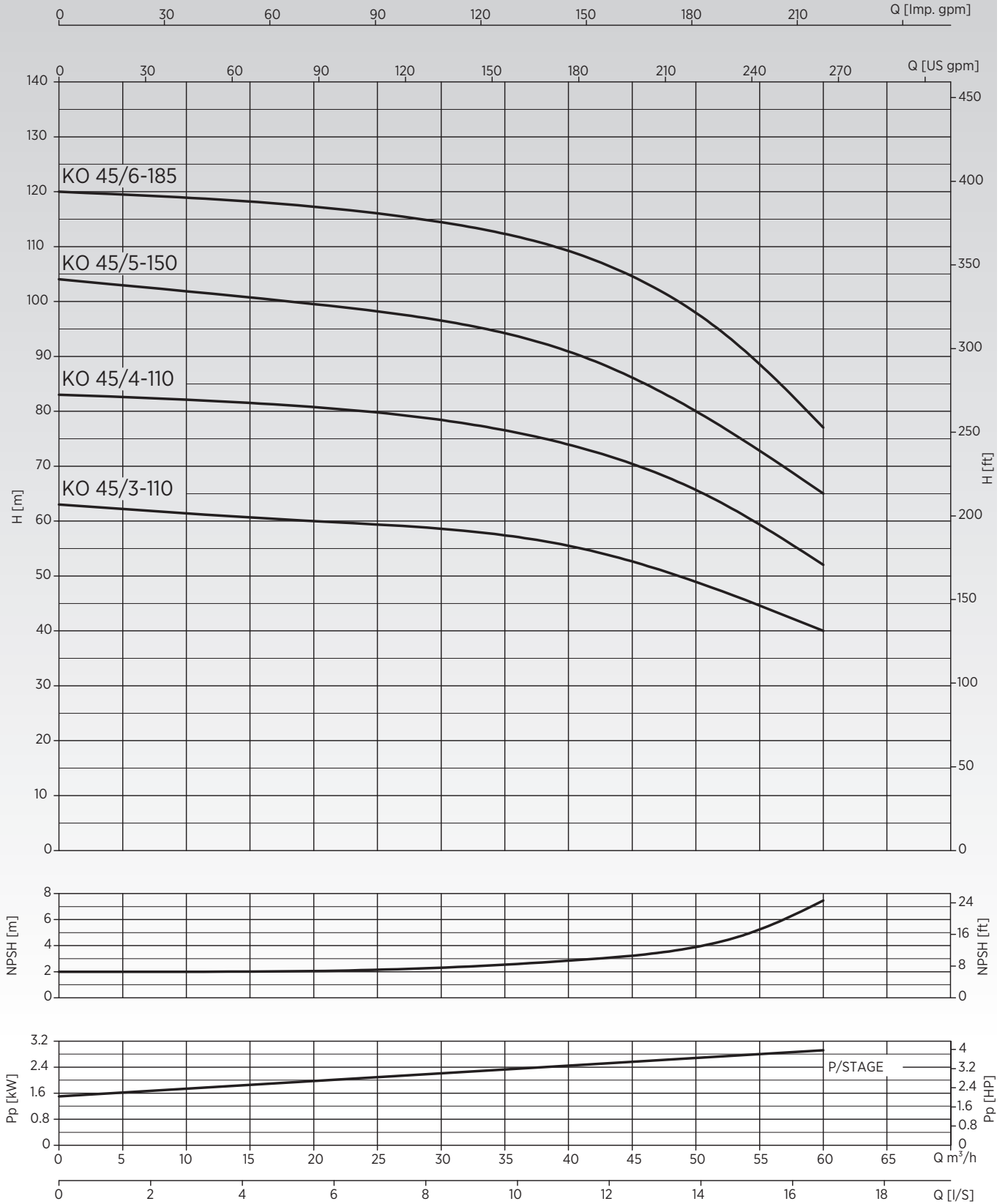


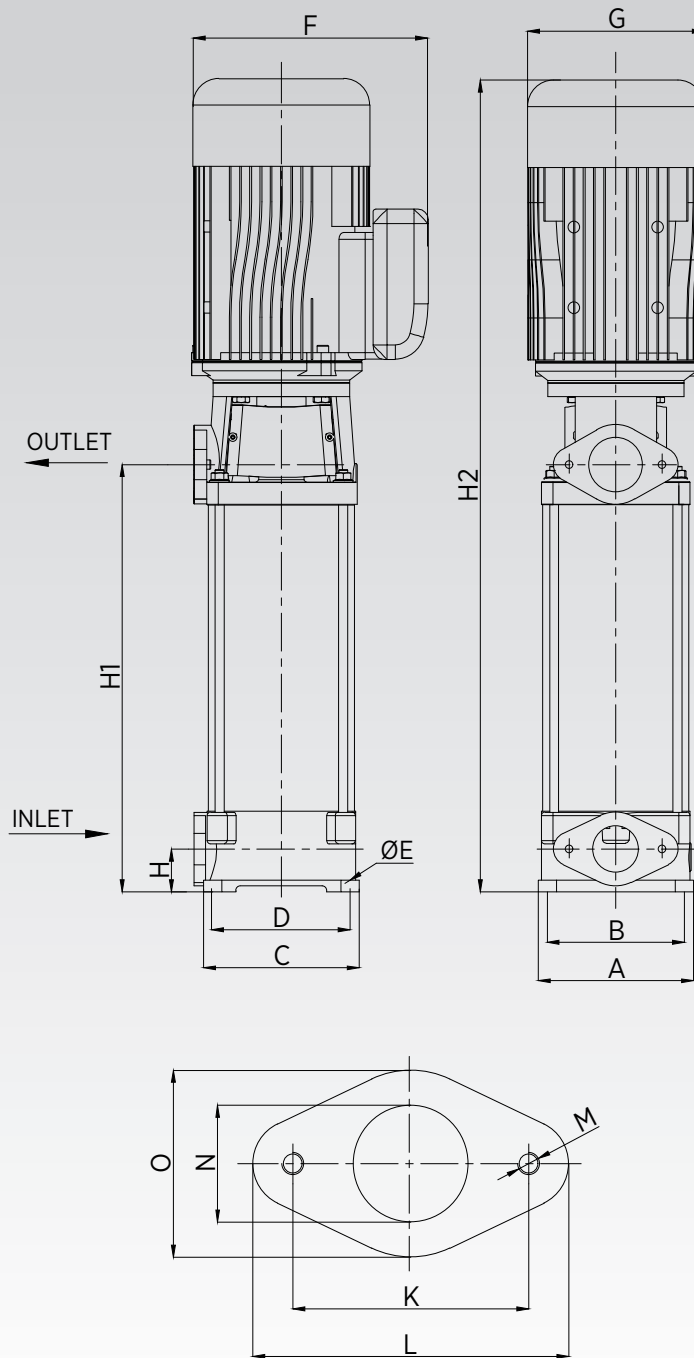
## KO 35 Series



# KO Series Performance Curves

## KO 45 Series





| TYPE  | DIMENSIONS |     |     |     |     |        |     |     |     |     |
|-------|------------|-----|-----|-----|-----|--------|-----|-----|-----|-----|
|       | INLET      |     |     |     |     | OUTLET |     |     |     |     |
|       | N          | O   | K   | L   | M   | N      | O   | K   | L   | M   |
| KO 4  | Ø40        | 64  | 82  | 110 | M8  | Ø40    | 64  | 86  | 110 | M8  |
| KO 7  |            |     |     |     |     |        |     |     |     |     |
| KO 10 | Ø42        | 68  | 88  | 117 | M10 | Ø42    | 68  | 88  | 117 | M10 |
| KO 15 |            |     |     |     |     |        |     |     |     |     |
| KO 25 | Ø80        | 110 | 140 | 170 | M12 | Ø70    | 100 | 120 | 150 | M12 |
| KO 35 |            |     |     |     |     |        |     |     |     |     |
| KO 45 |            |     |     |     |     |        |     |     |     |     |

# KO Series Dimensions and Weights

| TYPE        | DIMENSIONS |        |     |     |     |     |    |    |     |     |     |     |             |
|-------------|------------|--------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-------------|
|             | INLET      | OUTLET | A   | B   | C   | D   | ØE | H  | H1  | H2  | F   | G   | WEIGHT (kg) |
| KO 4/4 -0,7 | 1 "        | 1 "    | 137 | 112 | 137 | 112 | 10 | 37 | 223 | 543 | 200 | 160 | 20          |
| KO 4/6 -11  |            |        |     |     |     |     |    |    | 271 | 591 |     |     | 18          |
| KO 4/7 -11  |            |        |     |     |     |     |    |    | 295 | 615 |     |     | 19          |
| KO 4/8 -15  |            |        |     |     |     |     |    |    | 319 | 639 |     |     | 21          |
| KO 4/9 -22  |            |        |     |     |     |     |    |    | 343 | 718 |     |     | 220         |

| TYPE        | DIMENSIONS |         |     |     |     |     |    |    |     |     |     |     |             |
|-------------|------------|---------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-------------|
|             | INLET      | OUTLET  | A   | B   | C   | D   | ØE | H  | H1  | H2  | F   | G   | WEIGHT (kg) |
| KO 7/6 -11  | 1 1/4"     | 1 1/4 " | 137 | 112 | 137 | 112 | 10 | 37 | 271 | 591 | 200 | 160 | 18          |
| KO 7/7 -15  |            |         |     |     |     |     |    |    | 295 | 615 |     |     | 20          |
| KO 7/8 -22  |            |         |     |     |     |     |    |    | 319 | 684 |     |     | 24          |
| KO 7/9 -30  |            |         |     |     |     |     |    |    | 343 | 718 |     |     | 27          |
| KO 7/10 -30 |            |         |     |     |     |     |    |    | 367 | 742 |     |     | 220         |

| TYPE        | DIMENSIONS |         |     |     |     |     |    |    |     |      |     |     |             |     |    |
|-------------|------------|---------|-----|-----|-----|-----|----|----|-----|------|-----|-----|-------------|-----|----|
|             | INLET      | OUTLET  | A   | B   | C   | D   | ØE | H  | H1  | H2   | F   | G   | WEIGHT (kg) |     |    |
| KO 10/5-22  | 1 1/4"     | 1 1/4 " | 153 | 122 | 153 | 122 | 12 | 38 | 322 | 696  | 220 | 180 | 22          |     |    |
| KO 10/S7-22 |            |         |     |     |     |     |    |    | 398 | 772  |     |     | 23          |     |    |
| KO 10/7-30  |            |         |     |     |     |     |    |    | 398 | 772  |     |     | 32          |     |    |
| KO 10/9-40  |            |         |     |     |     |     |    |    | 482 | 883  |     |     | 39          |     |    |
| KO 10/10-40 |            |         |     |     |     |     |    |    | 520 | 920  |     |     | 230         | 200 | 40 |
| KO 10/12-55 |            |         |     |     |     |     |    |    | 596 | 1020 |     |     | 260         | 220 | 46 |

| TYPE        | DIMENSIONS |         |     |     |     |     |    |    |     |      |     |     |             |     |    |
|-------------|------------|---------|-----|-----|-----|-----|----|----|-----|------|-----|-----|-------------|-----|----|
|             | INLET      | OUTLET  | A   | B   | C   | D   | ØE | H  | H1  | H2   | F   | G   | WEIGHT (kg) |     |    |
| KO 15/4-22  | 1 1/4"     | 1 1/4 " | 153 | 122 | 153 | 122 | 12 | 38 | 285 | 658  | 220 | 180 | 21          |     |    |
| KO 15/5-30  |            |         |     |     |     |     |    |    | 322 | 696  |     |     | 31          |     |    |
| KO 15/6-40  |            |         |     |     |     |     |    |    | 367 | 777  |     |     | 230         | 200 | 36 |
| KO 15/7-40  |            |         |     |     |     |     |    |    | 402 | 815  |     |     | 37          |     |    |
| KO 15/8-55  |            |         |     |     |     |     |    |    | 443 | 873  |     |     | 43          |     |    |
| KO 15/9-55  |            |         |     |     |     |     |    |    | 482 | 910  |     |     | 260         | 220 | 44 |
| KO 15/12-75 |            |         |     |     |     |     |    |    | 596 | 1020 | 54  |     |             |     |    |

| TYPE         | DIMENSIONS |         |     |     |     |     |    |    |     |      |     |     |             |     |    |
|--------------|------------|---------|-----|-----|-----|-----|----|----|-----|------|-----|-----|-------------|-----|----|
|              | INLET      | OUTLET  | A   | B   | C   | D   | ØE | H  | H1  | H2   | F   | G   | WEIGHT (kg) |     |    |
| KO 25/3-30   | 1 1/2"     | 1 1/2 " | 153 | 122 | 153 | 122 | 12 | 75 | 351 | 678  | 230 | 200 | 33          |     |    |
| KO 25/4-40   |            |         |     |     |     |     |    |    | 415 | 777  |     |     | 38          |     |    |
| KO 25/6-55   |            |         |     |     |     |     |    |    | 530 | 912  |     |     | 46          |     |    |
| KO 25/8-75   |            |         |     |     |     |     |    |    | 644 | 1020 |     |     | 260         | 220 | 54 |
| KO 25/10-110 |            |         |     |     |     |     |    |    | 758 | 1140 |     |     | 79          |     |    |

| TYPE        | DIMENSIONS |        |     |     |     |     |    |    |     |      |     |     |             |     |     |
|-------------|------------|--------|-----|-----|-----|-----|----|----|-----|------|-----|-----|-------------|-----|-----|
|             | INLET      | OUTLET | A   | B   | C   | D   | ØE | H  | H1  | H2   | F   | G   | WEIGHT (kg) |     |     |
| KO 35/3-55  | 2 1/2 "    | 2 "    | 175 | 144 | 175 | 144 | 12 | 70 | 348 | 770  | 260 | 220 | 46          |     |     |
| KO 35/4-75  |            |        |     |     |     |     |    |    | 394 | 816  |     |     | 54          |     |     |
| KO 35/5-110 |            |        |     |     |     |     |    |    | 439 | 960  |     |     | 320         | 300 | 78  |
| KO 35/6-110 |            |        |     |     |     |     |    |    | 485 | 1005 |     |     | 80          |     |     |
| KO 35/7-150 |            |        |     |     |     |     |    |    | 531 | 1155 |     |     | 380         | 310 | 114 |
| KO 35/8-150 |            |        |     |     |     |     |    |    | 576 | 1200 |     |     | 115         |     |     |

| TYPE        | DIMENSIONS |         |     |     |     |     |    |    |     |      |     |     |             |     |     |
|-------------|------------|---------|-----|-----|-----|-----|----|----|-----|------|-----|-----|-------------|-----|-----|
|             | INLET      | OUTLET  | A   | B   | C   | D   | ØE | H  | H1  | H2   | F   | G   | WEIGHT (kg) |     |     |
| KO 45/3-110 | 3"         | 2 1/2 " | 175 | 144 | 175 | 144 | 12 | 70 | 431 | 950  | 320 | 300 | 77          |     |     |
| KO 45/4-110 |            |         |     |     |     |     |    |    | 493 | 1010 |     |     | 79          |     |     |
| KO 45/5-150 |            |         |     |     |     |     |    |    | 575 | 1200 |     |     | 380         | 310 | 114 |
| KO 45/6-185 |            |         |     |     |     |     |    |    | 637 | 1260 |     |     | 115         |     |     |



## KO ST Series

High quality pumps with compact construction and high efficiency with AISI304 grade stainless steel on all water contact surfaces. Highly preferred with its small footprint in booster systems and connection style as overlaying ( inlet at the bottom and outlet at top) occupying space at floor.

### Fields of Use

- Pressurized water supply in residential and commercial buildings
- Garden irrigation systems
- As booster pumps in commercial & residential buildings
- Clean water transfer

### Pump Specifications

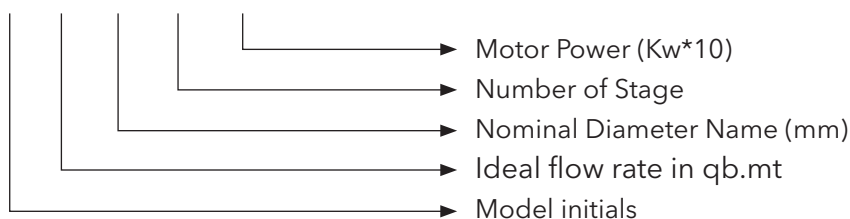
- Pump Body : AISI 304 Stainless Steel
- Impeller & Diffuser : AISI 304 Stainless Steel
- Pump Shaft : AISI 420 Stainless Steel
- Mechanical Seal : Carbon / Ceramic / EPDM

### Technical Specifications

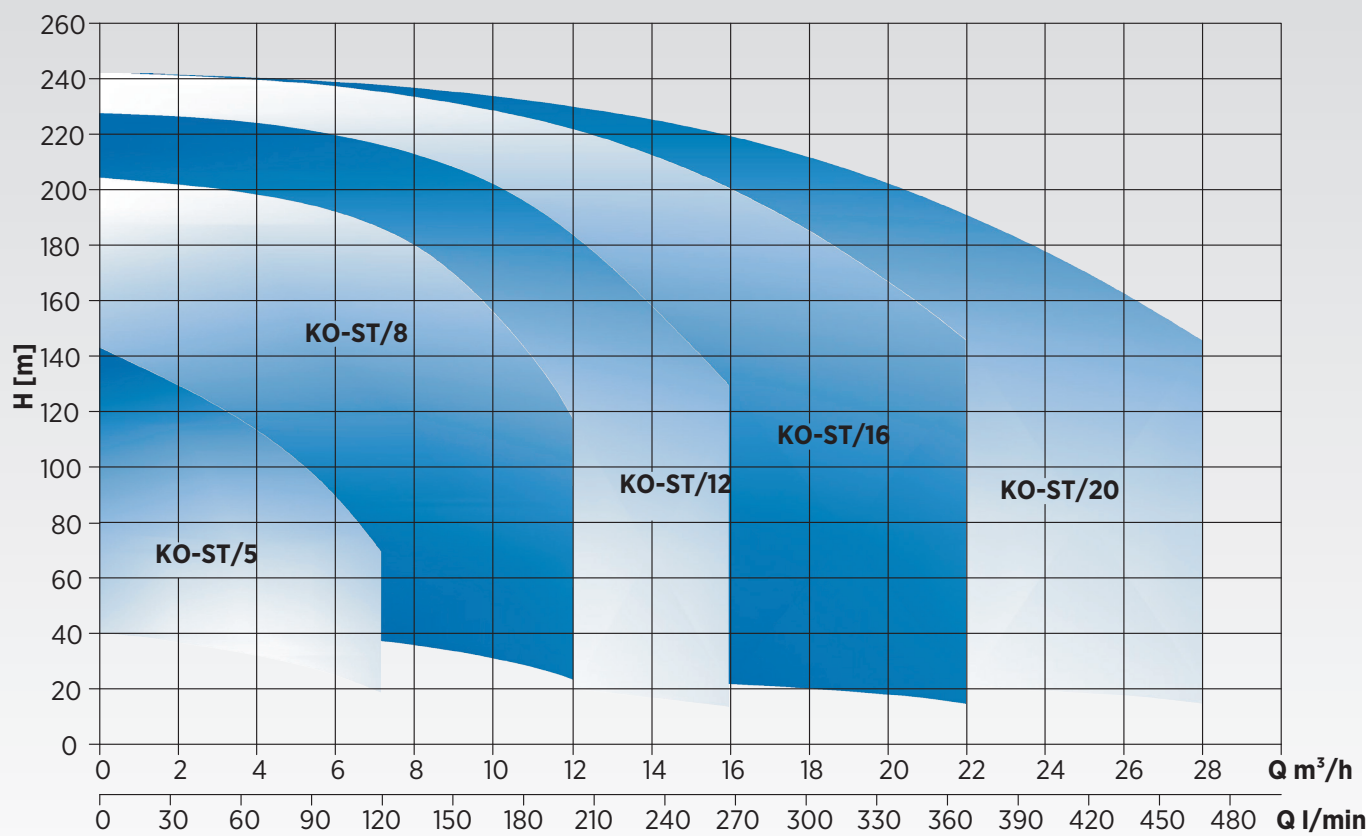
- Maximum Flow : 28 m<sup>3</sup>/h
- Maximum Pressure : 240 mwc
- Inlet-Outlet Diameter : 1" & 2"
- Pressure Class : PN25
- Max. Ambient Temperature : 40°C
- Fluid Temperature : 0 - 100°C
- Fluid Property : Clean, solid particle-free, chemically neutral water
- Motor Speed : 2900 rpm
- Network Connection : 3\*380V, 50Hz
- Motor Power : 0,75 - 18,5 Kw
- Protection Class : IP55
- Insulation Class : F

## Identification Code

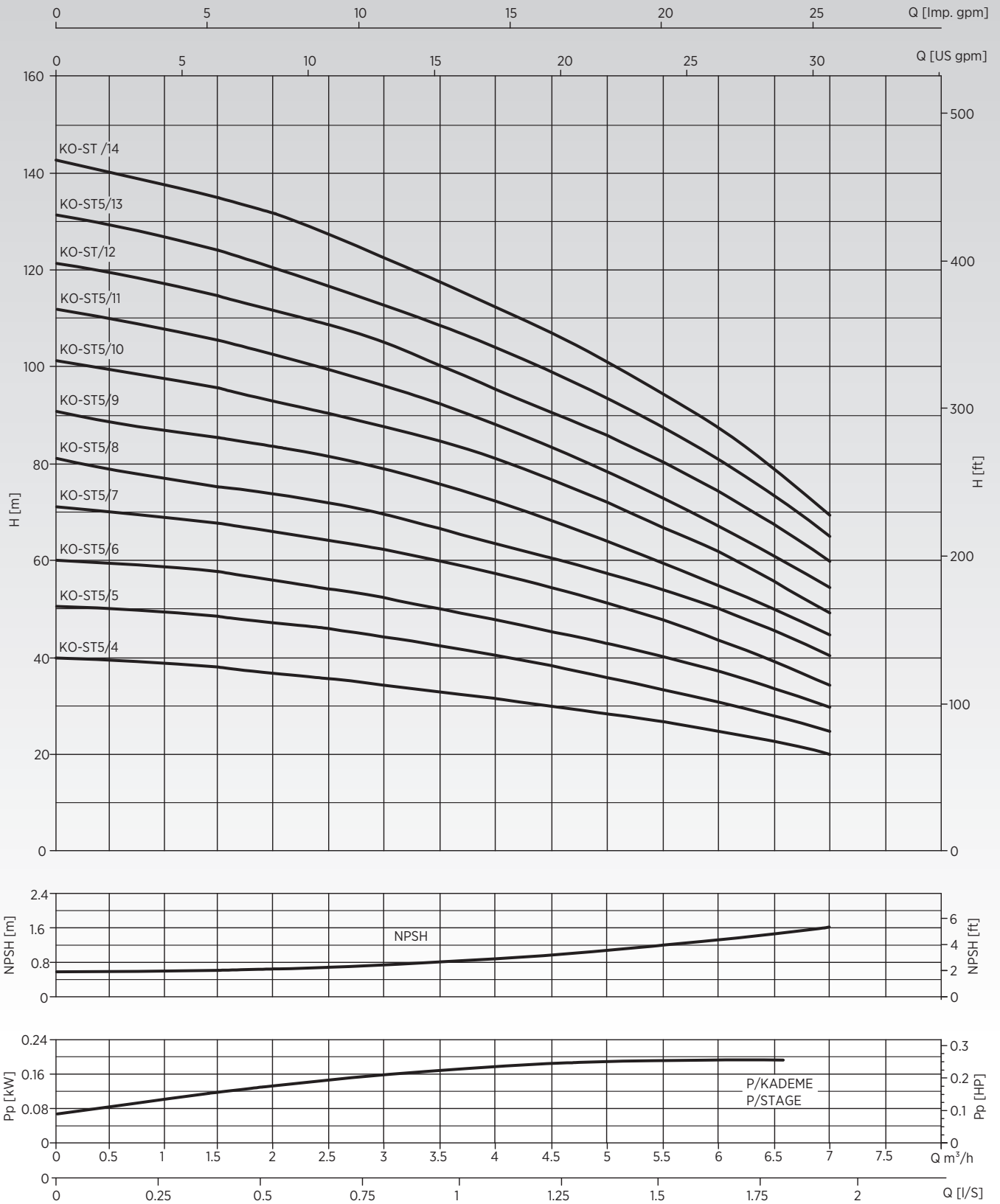
**KO ST 12 / 11 / 75**



# KO ST Series Family Curves

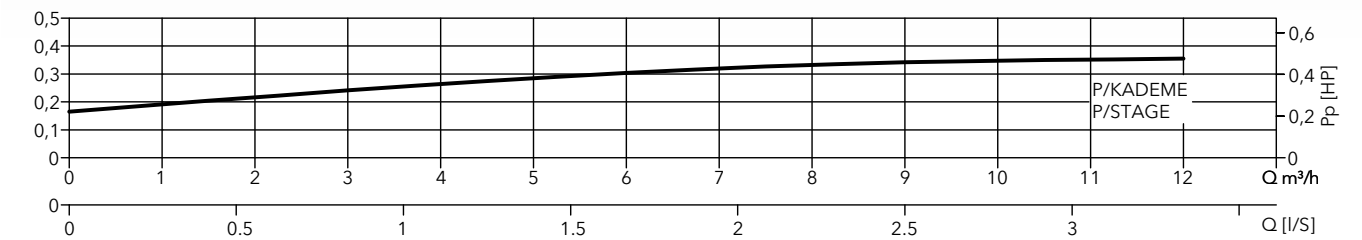
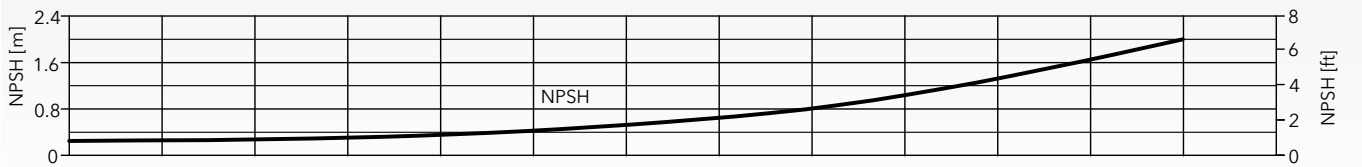
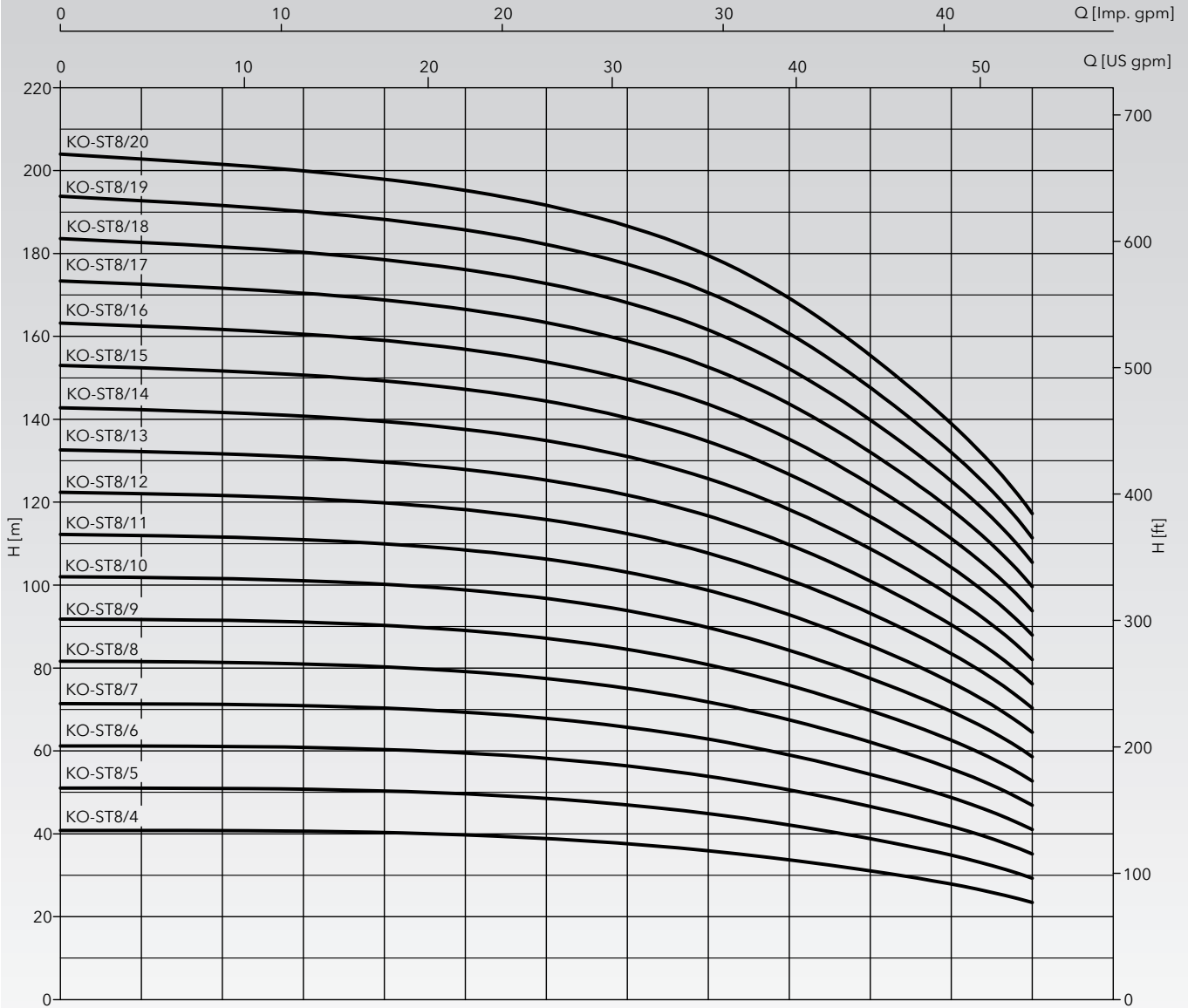


## KO ST 5 Series



# KO ST Series Performance Curves

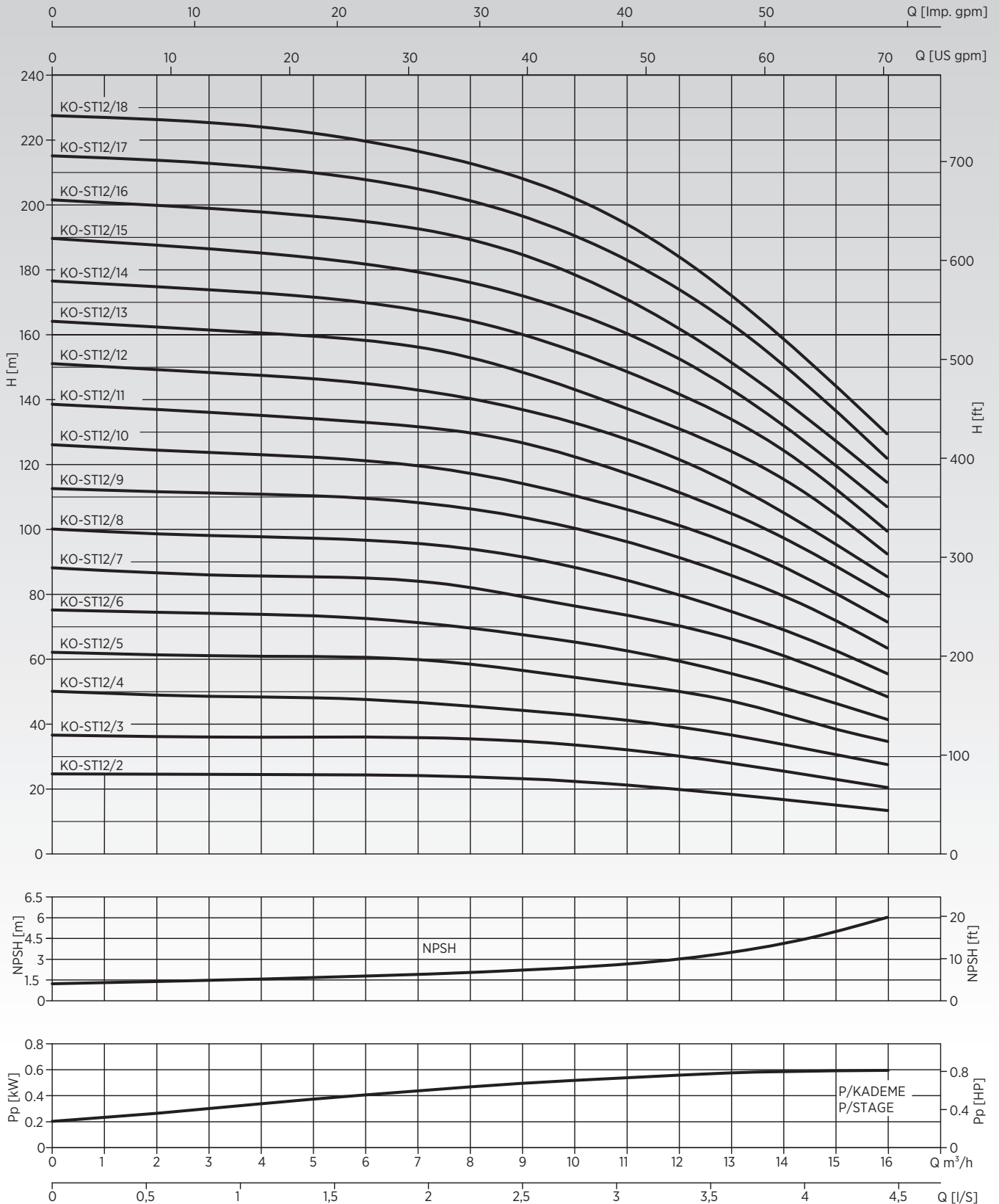
## KO ST 8 Series





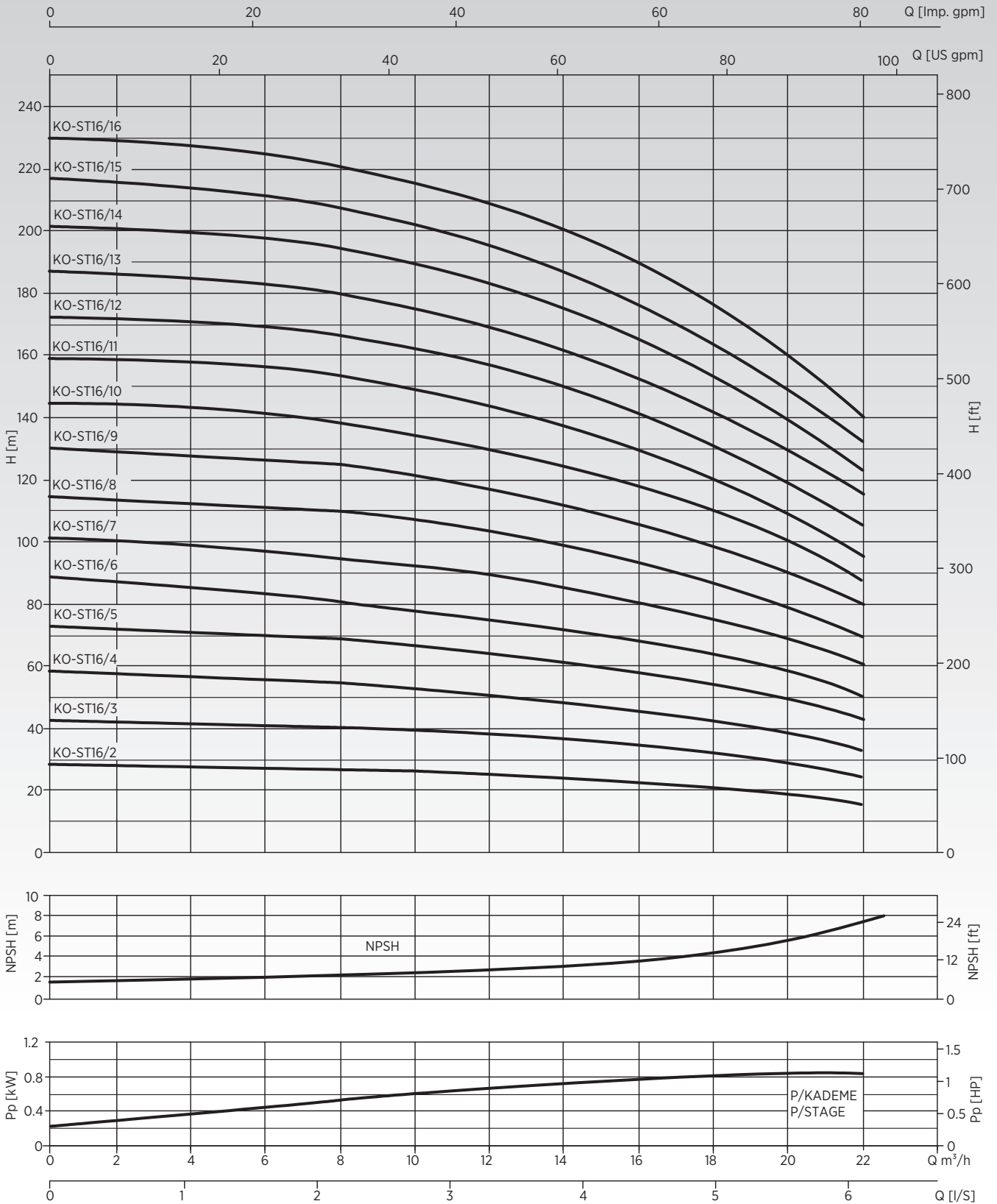


## KO ST 12 Series

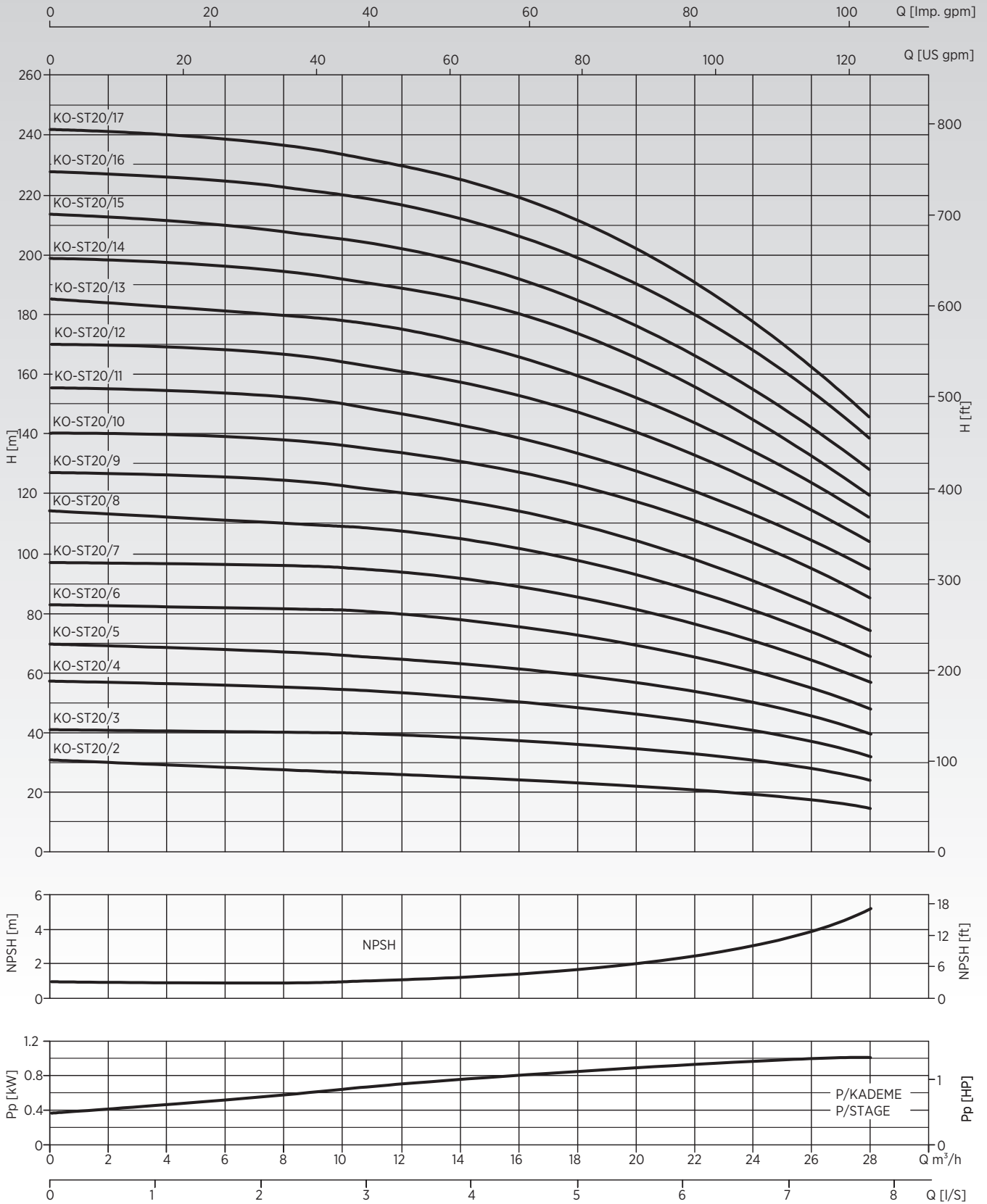


# KO ST Series Performance Curves

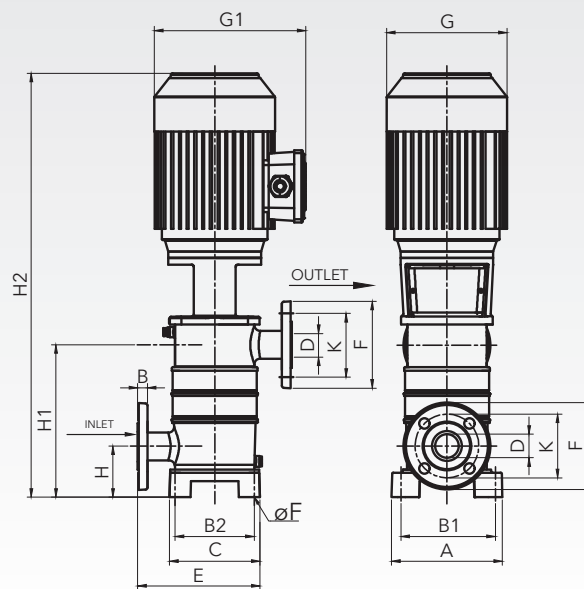
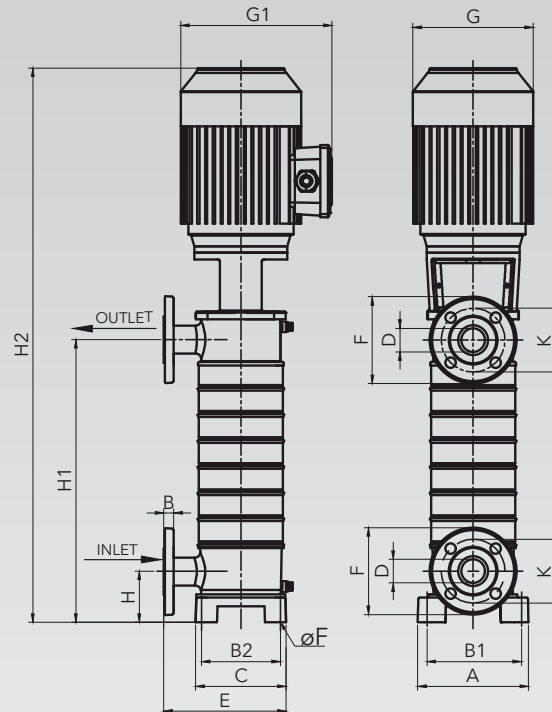
## KO ST 16 Series



## KO ST 20 Series



# KO ST Series Dimensions and Weights



| TYPE     | DIMENSIONS |     |     |    |
|----------|------------|-----|-----|----|
|          | E          | K   | F   | B  |
| KO-ST-5  | 27         | 90  | 108 | 10 |
| KO-ST-8  | 55         | 120 | 143 | 10 |
| KO-ST-12 | 55         | 120 | 143 | 10 |
| KO-ST-16 | 55         | 120 | 143 | 10 |
| KO-ST-20 | 55         | 120 | 143 | 10 |

| TYPE         | DIMENSIONS |     |     |     |     |    |     |    |    |     |     |     |     |        |
|--------------|------------|-----|-----|-----|-----|----|-----|----|----|-----|-----|-----|-----|--------|
|              | Inlet      | Out | A   | B1  | C   | B2 | E   | ØF | H  | H1  | H2  | G   | G1  | Weight |
| KO-ST5/4-075 | 1"         | 1"  | 151 | 128 | 121 | 64 | 173 | 9  | 68 | 224 | 578 | 156 | 196 | 18     |
| KO-ST5/5-11  |            |     |     |     |     |    |     |    |    | 251 | 600 |     |     | 20     |
| KO-ST5/6-11  |            |     |     |     |     |    |     |    |    | 278 | 632 |     |     | 20     |
| KO-ST5/7-15  |            |     |     |     |     |    |     |    |    | 305 | 659 |     |     | 22     |
| KO-ST5/8-15  |            |     |     |     |     |    |     |    |    | 332 | 686 | 22  |     |        |
| KO-ST5/9-22  |            |     |     |     |     |    |     |    |    | 359 | 768 | 27  |     |        |
| KO-ST5/10-22 |            |     |     |     |     |    |     |    |    | 386 | 795 | 28  |     |        |
| KO-ST5/11-22 |            |     |     |     |     |    |     |    |    | 413 | 822 | 28  |     |        |
| KO-ST5/12-22 |            |     |     |     |     |    |     |    |    | 440 | 849 | 29  |     |        |
| KO-ST5/13-30 |            |     |     |     |     |    |     |    |    | 467 | 876 | 33  |     |        |
| KO-ST5/14-30 |            |     |     |     |     |    |     |    |    | 494 | 903 | 33  |     |        |

| TYPE         | DIMENSIONS |        |     |     |     |    |     |    |    |     |      |     |     |        |
|--------------|------------|--------|-----|-----|-----|----|-----|----|----|-----|------|-----|-----|--------|
|              | Inlet      | Out    | A   | B1  | C   | B2 | E   | ØF | H  | H1  | H2   | G   | G1  | Weight |
| KO-ST8/4-15  | 1 1/2"     | 1 1/2" | 190 | 156 | 155 | 96 | 197 | 13 | 87 | 260 | 690  | 176 | 214 | 26     |
| KO-ST8/5-22  |            |        |     |     |     |    |     |    |    | 290 | 720  |     |     | 31     |
| KO-ST8/6-22  |            |        |     |     |     |    |     |    |    | 320 | 750  |     |     | 32     |
| KO-ST8/7-30  |            |        |     |     |     |    |     |    |    | 350 | 780  |     |     | 36     |
| KO-ST8/8-30  |            |        |     |     |     |    |     |    |    | 380 | 810  | 37  |     |        |
| KO-ST8/9-40  |            |        |     |     |     |    |     |    |    | 410 | 880  | 46  |     |        |
| KO-ST8/10-40 |            |        |     |     |     |    |     |    |    | 440 | 910  | 47  |     |        |
| KO-ST8/11-40 |            |        |     |     |     |    |     |    |    | 470 | 940  | 47  |     |        |
| KO-ST8/12-55 |            |        |     |     |     |    |     |    |    | 500 | 970  | 56  |     |        |
| KO-ST8/13-55 |            |        |     |     |     |    |     |    |    | 530 | 1000 | 57  |     |        |
| KO-ST8/14-55 |            |        |     |     |     |    |     |    |    | 560 | 1030 | 58  |     |        |
| KO-ST8/15-55 |            |        |     |     |     |    |     |    |    | 590 | 1060 | 59  |     |        |
| KO-ST8/16-75 |            |        |     |     |     |    |     |    |    | 620 | 1090 | 75  |     |        |
| KO-ST8/17-75 |            |        |     |     |     |    |     |    |    | 650 | 1120 | 76  |     |        |
| KO-ST8/18-75 |            |        |     |     |     |    |     |    |    | 680 | 1150 | 76  |     |        |
| KO-ST8/19-75 |            |        |     |     |     |    |     |    |    | 710 | 1180 | 77  |     |        |
| KO-ST8/20-75 |            |        |     |     |     |    |     |    |    | 740 | 1210 | 78  |     |        |

| TYPE          | DIMENSIONS |        |     |     |     |    |     |    |    |     |     |     |     |        |
|---------------|------------|--------|-----|-----|-----|----|-----|----|----|-----|-----|-----|-----|--------|
|               | Inlet      | Out    | A   | B1  | C   | B2 | E   | ØF | H  | H1  | H2  | G   | G1  | Weight |
| KO-ST12/2-15  | 1 1/2"     | 1 1/2" | 190 | 156 | 155 | 96 | 197 | 13 | 87 | 200 | 630 | 156 | 196 | 24     |
| KO-ST12/3-22  |            |        |     |     |     |    |     |    |    | 230 | 660 |     |     | 29     |
| KO-ST12/4-30  |            |        |     |     |     |    |     |    |    | 260 | 690 |     |     | 34     |
| KO-ST12/5-30  |            |        |     |     |     |    |     |    |    | 290 | 720 |     |     | 34     |
| KO-ST12/6-40  |            |        |     |     |     |    |     |    |    | 320 | 790 | 43  |     |        |
| KO-ST12/7-55  |            |        |     |     |     |    |     |    |    | 350 | 820 | 52  |     |        |
| KO-ST12/8-55  |            |        |     |     |     |    |     |    |    | 380 | 850 | 53  |     |        |
| KO-ST12/9-55  |            |        |     |     |     |    |     |    |    | 410 | 880 | 54  |     |        |
| KO-ST12/10-75 |            |        |     |     |     |    |     |    |    | 440 | 910 | 70  |     |        |
| KO-ST12/11-75 |            |        |     |     |     |    |     |    |    | 470 | 940 | 70  |     |        |
| KO-ST12/12-75 |            |        |     |     |     |    |     |    |    | 500 | 970 | 71  |     |        |

| TYPE          | DIMENSIONS    |             |     |     |     |    |     |    |    |     |      |     |     |        |
|---------------|---------------|-------------|-----|-----|-----|----|-----|----|----|-----|------|-----|-----|--------|
|               | Giriş / Inlet | Çıkış / Out | A   | B1  | C   | B2 | E   | ØF | H  | H1  | H2   | G   | G1  | Weight |
| Ç-ST16/2-22   | 1 1/2"        | 1 1/2"      | 190 | 156 | 155 | 96 | 197 | 13 | 87 | 215 | 645  | 176 | 214 | 29     |
| Ç-ST16/3-30   |               |             |     |     |     |    |     |    |    | 260 | 690  |     |     | 33     |
| Ç-ST16/4-40   |               |             |     |     |     |    |     |    |    | 305 | 775  |     |     | 43     |
| Ç-ST16/5-55   |               |             |     |     |     |    |     |    |    | 350 | 820  |     |     | 52     |
| Ç-ST16/6-55   |               |             |     |     |     |    |     |    |    | 395 | 865  | 53  |     |        |
| Ç-ST16/7-75   |               |             |     |     |     |    |     |    |    | 440 | 910  | 70  |     |        |
| Ç-ST16/8-75   |               |             |     |     |     |    |     |    |    | 485 | 955  | 71  |     |        |
| Ç-ST16/9-75   |               |             |     |     |     |    |     |    |    | 530 | 1000 | 72  |     |        |
| Ç-ST16/10-110 |               |             |     |     |     |    |     |    |    | 575 | 1160 | 87  |     |        |
| Ç-ST16/11-110 |               |             |     |     |     |    |     |    |    | 620 | 1200 | 89  |     |        |
| Ç-ST16/12-110 |               |             |     |     |     |    |     |    |    | 665 | 1240 | 90  |     |        |

| TYPE          | DIMENSIONS |        |     |     |     |    |     |    |    |     |      |     |     |        |
|---------------|------------|--------|-----|-----|-----|----|-----|----|----|-----|------|-----|-----|--------|
|               | Inlet      | Out    | A   | B1  | C   | B2 | E   | ØF | H  | H1  | H2   | G   | G1  | Weight |
| O-ST20/2-22   | 1 1/2"     | 1 1/2" | 190 | 156 | 155 | 96 | 197 | 13 | 87 | 215 | 645  | 176 | 214 | 29     |
| O-ST20/3-40   |            |        |     |     |     |    |     |    |    | 260 | 730  |     |     | 41     |
| O-ST20/4-55   |            |        |     |     |     |    |     |    |    | 305 | 775  |     |     | 51     |
| O-ST20/5-55   |            |        |     |     |     |    |     |    |    | 350 | 820  | 52  |     |        |
| O-ST20/6-75   |            |        |     |     |     |    |     |    |    | 395 | 865  | 68  |     |        |
| O-ST20/7-75   |            |        |     |     |     |    |     |    |    | 440 | 910  | 70  |     |        |
| O-ST20/8-110  |            |        |     |     |     |    |     |    |    | 485 | 1070 | 85  |     |        |
| O-ST20/9-110  |            |        |     |     |     |    |     |    |    | 530 | 1120 | 86  |     |        |
| O-ST20/10-110 |            |        |     |     |     |    |     |    |    | 575 | 1160 | 87  |     |        |
| O-ST20/11-110 |            |        |     |     |     |    |     |    |    | 620 | 1200 | 89  |     |        |



A large area containing multiple horizontal lines for taking notes, indicating a ruled page format. The lines are evenly spaced and extend across the width of the page.





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