

## **First class and state-of-the-art heavy duty slurry pumps for the sand, gravel, steel, aircrete and mining industry.**



The SPG GmbH, sells and distributes a wide selection of pumps. A speciality in this range are the **modularly configurable heavy duty slurry pumps** suitable for various applications. Guaranteeing high performance, a wide portfolio of products with **easy and fast maintenance** SPG provides one of the most interesting, versatile and competitive alternative heavy duty pumps currently available on the market. Particularly in the mining and mineral industry SPG employees have built up a wealth of valuable experience over decades enabling us to not only give competent and qualified advice in the project design phase but also to provide optimum configuration and computation of your equipment during operation.

Usually we have the standard sizes of pumps like 3/2, 4/3, 6/4 and 8/6 **on stock** so that we can provide you with short delivery times. For these sizes and for bigger pumps till 12/10 we store the necessary spare parts in our stock usually.

Please feel free to visit our homepage [www.spg-pumps.com](http://www.spg-pumps.com) to get further informations.

**Your first choice due to highly competitive pricing from the first pump to spare and wear parts when needed. First class service and spare part availability.**

## Available material specification and performance of SPG pumps

For our pumps we have all wear parts available in high chromium alloy and elastomeres

### Elastomeres:

Natural Rubber (Code R55)	pH 1-14	T <sub>max</sub> : 70 °C
Neoprene (Code S42)	pH 1-14	T <sub>max</sub> : 100 °C (oil resistant)
EPDM (Code S01)	pH 1-14	T <sub>max</sub> : 120 °C
Hypalon (Code S31)	pH 1-14	T <sub>max</sub> : 110 °C (chemically stable)
Polyurethane (Code U01)	pH 1-14	T <sub>max</sub> : 100 °C

### High chromium alloy:

High chromium alloy (Code A05)      pH 5-12      T<sub>max</sub>: 95 °C  
27% Chrome, Hardness 650 HB

High chromium alloy (Code A49)      pH 4-12      T<sub>max</sub>: 95 °C  
30% Chrome, Hardness 450 HB

### Series AH, M, HH, LS – heavy duty - horizontal

- heavy duty pump, suitable for every type of slurry
- reliable at high solids content, up to 70% percent by weight
- available with all materials



Type	2/1,5 AH	3/2 AH	4/3 AH	6/4 AH	8/6 AH	10/8 AH	12/10 AH	14/12 AH	16/14 AH
m <sup>3</sup> /h	40	80	150	300	600	1.250	1.800	2.800	3.500
H [m]	62	88	80	80	80	88	84	88	64
type	3/2 HH	4/3 HH	6/4 HH	10/8 M	300 LS	350 LS	400 LS	450 LS	550 LS
m <sup>3</sup> /h	80	200	400	1.100	2.100	2.600	3.600	4.600	4.800
H [m]	88	100	90	65	64	68	50	60	42

### Series G / GH – gravel/dredge pump - horizontal

- useable for dredging or pumping slag
- armed with a 3-channel impeller for particle sizes up to 254 mm
- available with material A05



Type	6/4 G	8/6 G(GH)	10/8 G	10/8 GH	12/10 G	12/10 GH	14/12 G	18/16 G
m <sup>3</sup> /h	300	500	1.000	1.250	1.400	2.200	2.200	3.200
H [m]	50	50 (80)	60	80	60	80	70	50

### Series G – used as turnip pump

type	18/16 G	20/18 G	24/20 G
m <sup>3</sup> /h	300	500	1.000
mix ratio	1:4	1:4	1:4
t/h turnip	375	500	650
max. size [mm]	300	345	380

### Series AHF – froth pump for aerated media or flotation foam - horizontal

- useable for flotation foam and aerated media
- Armed with special 4-channel impeller with patched wings
- big inlet diameter
- available with material A05 and R55



Type	2 C-AHF	3 C-AHF	4 D-AHF
m <sup>3</sup> /h at H <sub>2</sub> O	100	150	300
H <sub>max</sub> at H <sub>2</sub> O	55	52	66
Froth factor max.	1,5	1,5	1,5

**Series SP/SPR – sump pump – vertical**

- Vertical cantilever pump
- Imersion depth from 0,9 – 2,1 m depending on pump size
- Available with material A05 as SP and R55 as SPR pump



Type	40 SP/SPR	65 SP/SPR	100 SP/SPR	150 SP/SPR	200 SP/SPR	250 SP/SPR	300 SP
m <sup>3</sup> /h	40	100	300	450	800	1.000	1.400
H [m]	29	50	50	35	40	35	35

All mentioned data show the maximum height and maximum discharge

**Series SUB – submersible pump**

- suitable for every type of slurry
- wet parts from pump type AH or LL
- 4, 6 or 8 pole submersible motors
- Agitator made from A05 possible
- all advantages of SPG horizontal pump as submersible pump



The bearing size is denoted with code letter. Example for a complete type designation:

6/4 D-AH → 6 inches sucking nozzle  
4 inches discharge nozzle  
D bearing unit  
AH series heavy duty

40 PV-SP → 40 discharge nozzle in mm  
PV bearing unit  
SP sump pump metal lined

Bearing size	available for types	max. power [kW]
A	20 L	7,5
B	1/1,5 AH - 2/1,5 AH - 50 LL	15
C	3/2 AH - 4/3 AH - 75 L - 1,5/1 HH - 2 AHF	30
CC	3/2 AH - 4/3 AH - 75 L - 1,5/1 HH	55
D	4/3 AH - 6/4 AH - 3/2 HH - 100 LL - 6/4 G - 3-AHF	60
DD	6/4 AH - 6/4 G	110
E	6/4 AH - 8/6 AH, 4/3 HH - 10/8 M - 12/10 - 150 LL - 250 LL - 8/6 G	120
EE	6/4 AH - 8/6 AH - 4/3 HH	225
F	6/4 HH - 8/6 HH - 10/8 AH - 12/10 AH - 8/6 G/GH - 10/8 G/GH - 12/10 G	260
FF	6/4 HH - 10/8 AH - 12/10 AH - 10/8 GH	425
R	8/6 AH	300
S, ST	10/8 AH, 12/10 AH - 14/12 AH - 300 LS - 350 LS - 400 LS - 450 LS	560
G	12/10 GH - 14/12 G - 18/16 G	600
H	20/18 G - 24/20 G	1.400
TU	16/14 AH - 20/18 AH - 550 LS - 650 LS	1.200
PV	40 SP/SPR	15
QV	65 SP/SPR	30
RV	100 SP/SPR	75
SV	150 SP/SPR - 200 SP - 250 SP	110

### Available shaft seal

- Suffing box packing with gland water in 2 versions
  - o low flow or full flow depending on the purpose of application
- hydrodynamic shaft seal through expeller – without glandwater
- mechanical seal with washing (**dedicated design from affiliated firm DTZ GmbH**)



With its **own range of seals**, DTZ has been providing customer service in the field of seal technology for over 25 years (design, manufacture, sales and repair). DTZ seals can be found in various applications throughout the world and are also available from a selection of different equipment manufacturers. A further important pillar of DTZ's business is of course our **pump service**. Here pumps are maintained and repaired regardless of manufacturer either by using original OEM parts or DTZ-manufactured replacement parts. For economical reasons, other parts showing signs of wear and tear can also be repaired instead of being replaced at high and unnecessary cost. Our wide range of customers include mining companies, power stations, energy providers, steel plants, state sewage companies, chemical and petrochemical industries and the paper industry among others. For an overview of DTZ's complete performance spectrum see [www.dtz-dichtung.de](http://www.dtz-dichtung.de).

With SPG and DTZ together, you have a definite economical advantage. Full one stop shop service for all of your equipment.

New pumps, repairs, spare parts, mechanical seals installation all at competitive prices and conditions.

**Some impressions of our manufacturing assembly facilities and our pumps**



*Picture 1: SPG and DTZ workshop*



*Picture 2: SPG pumps on stock*



*Picture 3: SPG workshop*



*Picture 4: SPG pumps type AH with CV motor guard*



Picture 5: 12/10 F-G with mounted 132 kW motor



Picture 6: SPG 18/16 and 16/14 ready for transport



Picture 7: different sizes SPG sump pumps



Picture 8: DTZ mechanical seal



Picture 9: DTZ mechanical seal mounted in SPG 3/2 pump



Picture 10: SPG 10/8 FU-G with DTZ **underwater seal**