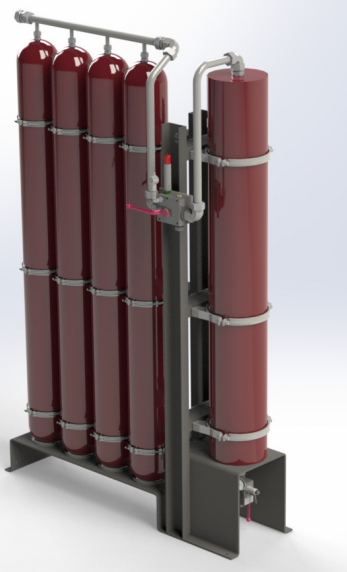


Piston accumulator station SKS.350



Description

The piston accumulator stations are designed with a modular concept and thus provide the option of combining up to 10 nitrogen bottles with one piston accumulator in both the 1-row and the 2-row design.

They have the following advantages:

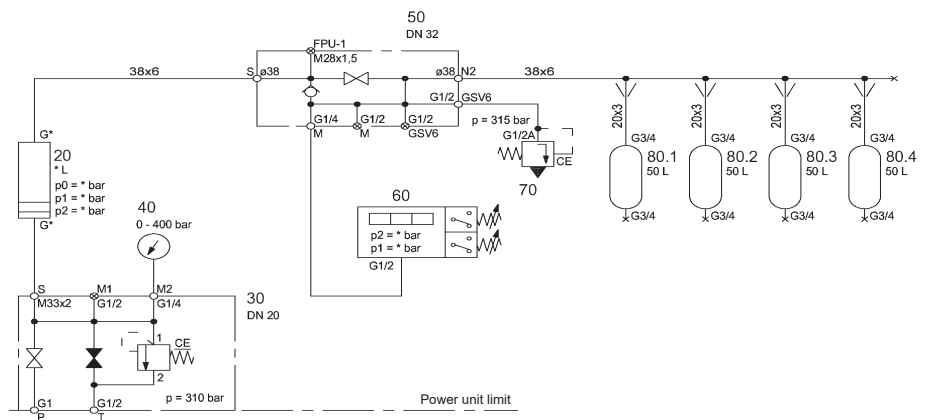
- Increasing the energy efficiency of the hydraulic system
 - Pumps can be set to intermittent operation (accumulator charging function)
 - Downsizing of the motor-pump group, as power peaks are covered by accumulator
- Storage of energy so that safety functions can still be realised even in the case of electric power failure

Technical data

General data	
Operating pressure	Depending on certification 315 / 262 / 210 bar
Piping on gas side	Depending on block version, 38S or 20S
Screw joint system	Weld nipple
Ambient temperature	-10 °C to 70 °C

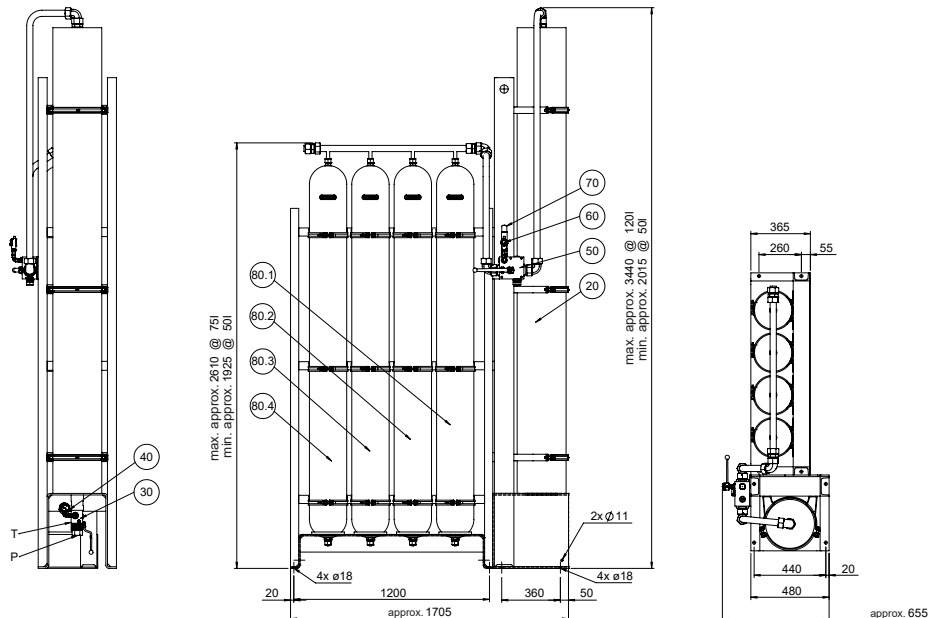
Hydraulic circuit

Example of an SKS.350-25 with four nitrogen bottles



DIMENSIONS

Example of an SKS.350-25 with four nitrogen bottles



20 – Piston accumulator	60 – Pressure transmitter
30 – Safety and shut-off block	70 – Gas safety valve
40 – Pressure gauge	80 – Nitrogen bottles
50 – Charging and testing block	

Model code

SKS - 350 - 25 - 1 x 050 / 02 x 50 - U - 1 - 0 - S0 - F10 - C - C3 - N - 315 - P0

Product

SKS = piston accumulator station

Nominal pressure of piston accumulator [bar]

350 = 350 bar nominal pressure

Piston accumulator diameter [mm]

25 = 250 mm

35 = 355 mm

Number of piston accumulators

1 = 1 accumulator

Nominal volume of piston accumulator [l]

50 = 50 litres

... = ...

120 = 120 litres

Number of N2 bottles

1 = 1 bottle

... = ...

10 = 10 bottles

Nominal volume of N2 bottles [l]

50 = 50 litres

75 = 75 litres

Certification code

U = Europe (PED)

S = USA (ASME)

P = Japan (KHK)

A6 = Russia

A9 = China

A11 = Republic of Korea (KGS)

Certification codes for countries not listed on request

Frame version, N2 bottles

1 = 1-row

2 = 2-row

Accumulator monitoring

0 = none

D = piston position monitoring by means of 2x PNP sensor (digital)

A = piston position monitoring by means of cable tension measurement system 4-20 mA (analogue)

Block version, oil side

S1 = a size-20 SAF block

S2 = a size-20 SAF block with additional electric release valve in the P-line

Block version, gas side

F1 = charging and testing block DN16

F2 = charging and testing block DN16 with burst disk

F3 = charging and testing block DN16 with gas safety valve

F4 = charging and testing block DN32

F5 = charging and testing block DN32 with burst disk

F6 = charging and testing block DN32 with gas safety valve

F7 = charging and testing block DN32 redundant burst disk (patented)

F8 = charging and testing block DN32 redundant gas safety valve (patented)

Design of the piping

C = carbon steel

S = stainless steel

Coating

C3 = coating thickness 160-200 µm -> suitable for indoor set-up

C4 = coating thickness 200-240 µm -> suitable for outdoor set-up

C5 = coating thickness 240-280 µm -> suitable for outdoor set-up

Seal and bladder material

N = NBR

Other seal and bladder materials on request

Max. permitted operating pressure [bar]

315 = for approval U, A6, A9, A11

262 = for approval S

210 = for approval P

Other

P0 = p₀ sensor (EDS 3446-F31)

P1 = pressure transmitter, oil side (EDS 3446-3)

P2 = pressure transmitter, gas side (EDS 3446-3)

P3 = pressure transmitter, oil and gas side (EDS 3446-3)

M = pressure gauge, gas side

K = condensate drain for N2 bottles

Note

The technical data provided here refers to the standard version of a piston accumulator station. Customer-specific requirements can also be implemented following a review. The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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