



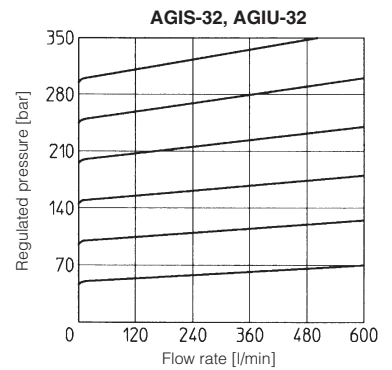
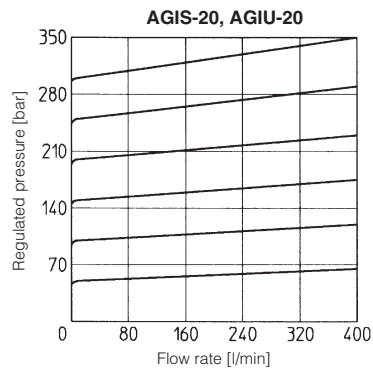
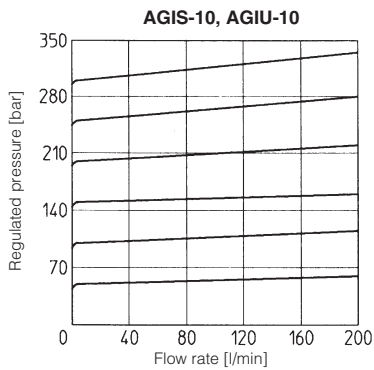
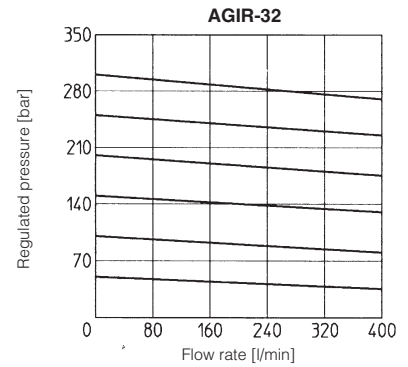
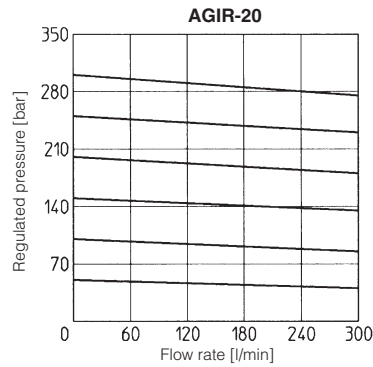
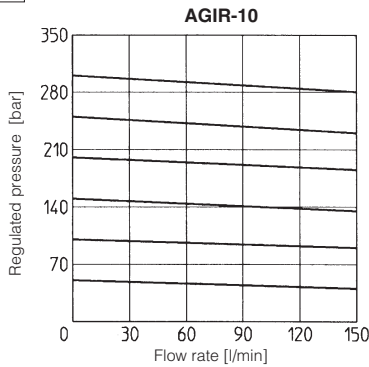
### 3 MAIN CHARACTERISTICS OF PRESSURE CONTROL VALVES TYPE AGIR, AGIS, AGIU

Assembly position / location	Any position
Subplate surface finishing	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)
Ambient temperature	-20°C to + 70°C
Fluid	Hydraulic oil as per DIN 51524 . . . 535; for other fluids see section 11
Recommended viscosity	15 ÷ 100 mm <sup>2</sup> /s at 40°C (ISO VG 15 ÷ 100)
Fluid contamination class	ISO 4401 class 21/19/16 NAS 1638 class 10 (filters at 25 µm value with β <sub>25</sub> ≥ 75 recommended)
Fluid temperature	-20°C +60°C (standard seals) -20°C +80°C (/PE seals)

#### 3.1 Coils characteristics

Insulation class	H
Connector protection degree	IP 65
Relative duty factor	100%
Supply voltage and frequency	See electric feature 7
Supply voltage tolerance	± 10%
Certification (only for -I and -ER version)	cURus North American standard

### 4 REGULATED PRESSURE VERSUS FLOW DIAGRAMS based on mineral oil ISO VG 46 at 50°C



Note: for AGIU-10, the max flow rate is 100 l/min

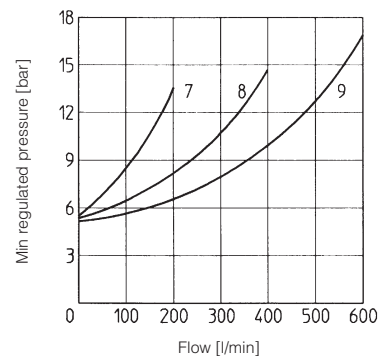
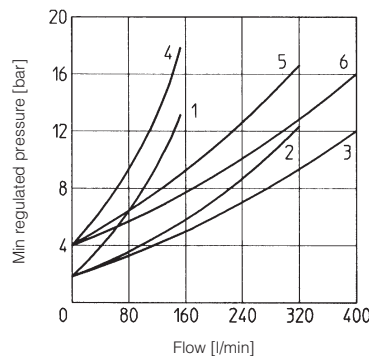
Note: for AGIU-20, the max flow rate is 200 l/min

Note: for AGIU-32, the max flow rate is 300 l/min

### 5 OPERATING DIAGRAM based on mineral oil ISO VG 46 at 50°C

- 1 = AGIR-10 A → B
- 2 = AGIR-20 A → B
- 3 = AGIR-32 A → B
- 4 = AGIR-10 B → A
- 5 = AGIR-20 B → A
- 6 = AGIR-32 B → A

- 7 = AGIS-10
- 8 = AGIS-20
- 9 = AGIS-32



#### Opening/closing diagram for AGIU

- 1 = AGIU-\*/.../standard    3 = AGIU-\*/.../6
- 2 = AGIU-\*/.../5         4 = AGIU-\*/.../7

#### NOTES

- 1) Short pipes with low resistance must be used between the unloading valve and the accumulator;
- 2) When the resistance is high, the hydraulic pilot signal must be taken as closed as possible to the accumulator;
- 3) With high pump flow and small valve differential pressure of intervention it is unadvisable to use the version with external drain;
- 4) When to use the BA-\*25 subplates:
  - a) in applications with working frequencies >10 Hz use subplates type BA-\*25/4 (spring with 4 bar of cracking pressure);
  - b) in applications with working frequencies <10 Hz use subplates type BA-\*25/2 (spring with 2 bar of cracking pressure);

