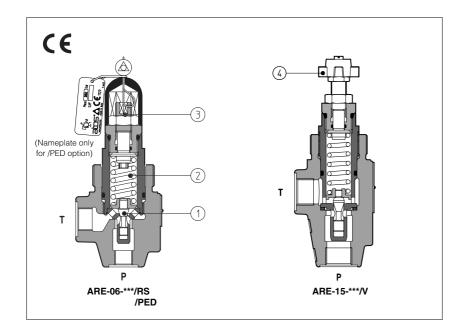


Pressure relief valves type ARE

direct operated, in line mounting - G 1/4" and G 1/2" threaded ports



ARE are poppet type, directed operated pressure relief valves, with threaded ports for in line mounting.

The flow P→T is permitted when pressure force acting on the poppet ① overcomes the force of the spring ②

Regulation is operated by means of a screw 3 or optionally by means of a handwheel (4) acting on the spring.

Clockwise rotation increases the pressure.

These valves are available in two sizes, with port P=G 1/4" or G 1/2"

Also available in safety options with sealed regulation:

/RS conforming to Machine Directive (2006/42/CE). The factory preset regulation required by the costumer corresponds to the valve's cracking pressure.

/PED conforming to PED Directive

(97/23/CE). The valves are factory set at the pressure level required by the costumer with a flow through the valve as shown in section 5.

For this version, the P, Q limits are shown in section 7.

Max flow: 100 l/min: Max pressure: 500 bar.

MODEL CODE

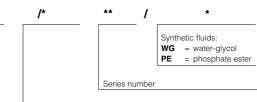
ARE	<u> </u>	-	06	1	350
ARE= pressure relief valve w	ith thread connections				
Availble also in cartridge exec	cution,see table C010				
Size:					
06 = port P G 1/4"	15 = port P G 1/2"				
00 = port1	13 - port 1 0 1/2				
Setting:					
for size 06:	for size 15:				
50 = $2 \rightarrow 50$ bar	15 = 2 → 15 ba	r			
100 = $3 \rightarrow 100 \text{ bar}$	50 = $3 \rightarrow 50$ ba	r			
210 = $10 \rightarrow 210$ bar	75 = 4 → 75 ba	r			
350 = 15 → 350 bar					
330 - 13 - 330 Dai	150 = 8 → 150 ba	r			

(1) For handwheel and knob features and avaibility, see section 2 and technical table K150.

(2) Possible combined options:

/RV = reduced leakages and regulating handweel /RVF = reduced leakages and regulating knob

/RVS = reduced leakages and regulating knob with safety locking



Only for RS, PED options:

280 = factory pressure setting to be defined depending to the customer requirement (example 280 = 280 bar)

Options (1)(2):

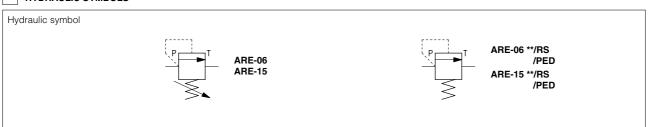
= reduced leakage for special applications /RS = as /R, plus conforming to 2006/42/CE /PED = as /R, plus conforming to 97/23/CE

Only for standard and /R option: = regulating handwheel

/VF = regulating knob

/VS = regulating knob with safety locking

2 HYDRAULIC SYMBOLS



3 HYDRAULIC CHARACTERISTICS

Valve model				ARE-06					ARE-15		
Setting		/50	/100	/210	/350	/500	/15	/50	/75	/150	/250
	/RS		/220	/270	/320	/350		/150	/190	/230	
	/PED		/100	/210	/350				/75	/150	/250
Pressure range [bar]		2÷50	3÷100	10÷210	15÷350	30÷500	2÷15	3÷50	4÷75	8÷150	8÷250
	/RS		200÷250	250÷290	290÷350	310÷370		130÷170	170÷210	210÷250	
	/PED		25÷100	100÷210	210÷350				25÷75	75÷150	150÷250
Max flow [I/mir	1]			40					75		
	/RS, /PED			60					100		

4 MAIN CHARACTERISTICS OF PRESSURE RELIEF VALVES TYPE ARE

Assembly position	Any position		
Subplate surface finishing	Roughness index $\sqrt{\frac{0.4}{}}$, flatness ratio 0,01/100 (ISO 1101)		
Ambient temperature	-20°C + 70°C		
Fluid	Hydraulic oil as per DIN 51524535; for other fluids see section		
Recommended viscosity	15÷100 mm²/s at 40°C (ISO VG 15÷100)		
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μm value and β25≥75 (recommended)		
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)		

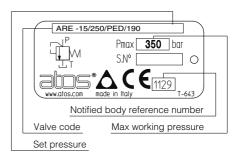
5 SETTING OF VALVES WITH /PED OPTION

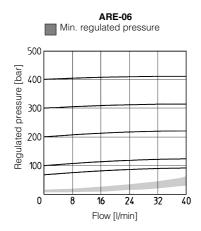
The /PED valves are factory set at the pressure level required by the costumer (every 1 bar) at the following flow shown in the table.

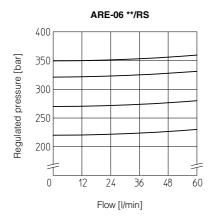
The set pressure is marked on the valve nameplate, see section 5.1

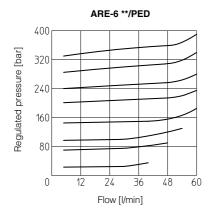
VALVE MODEL	FLOW FOR FACTORY PRESSURE SETTING (I/min)			
ARE-06	30			
ARE-15	50			

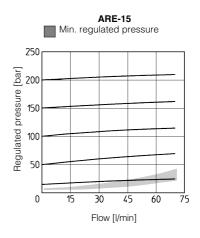
5.1 EXAMPLE OF NAMEPLATE FOR /PED OPTION

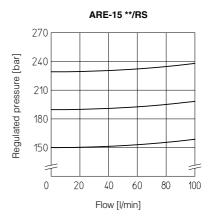


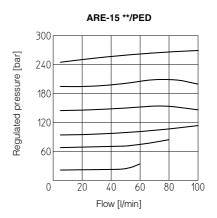




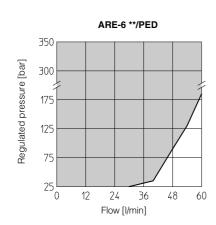


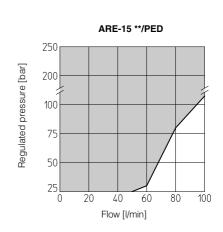






PERMISSIBLE RANGES (shaded area) based on mineral oil ISO VG 46 at 50°C





8 DIMENSIONS [mm]

