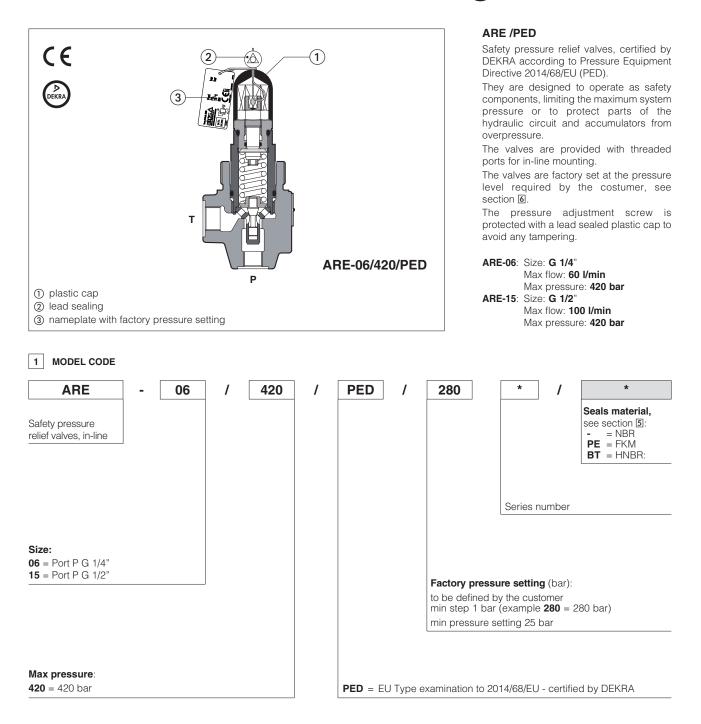


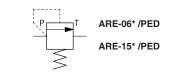
Safety pressure relief valves

in line, direct, conforming to PED Directive 2014/68/EU - certified by





2 HYDRAULIC SYMBOL



3 GENERAL CHARACTERISTICS

Assembly position	Any position	
MTTFd valves according to EN ISO 13849	150 years, for further details see technical table P007	
Ambient temperature range	Standard = $-30^{\circ}C \div +80^{\circ}C$ /PE option = $-20^{\circ}C \div +80^{\circ}C$ /BT option = $-40^{\circ}C \div +70^{\circ}C$	
Storage temperature range	Standard = $-30^{\circ}C \div +80^{\circ}C$ /PE option = $-20^{\circ}C \div +80^{\circ}C$ /BT option = $-40^{\circ}C \div +70^{\circ}C$	
Surface protection	Zinc coating with black passivation - salt spray test (EN ISO 9227) > 200h	
Compliance	PED Directive 2014/68/EU - EU type-examination certificate (1) RoHS Directive 2011/65/EU as last update by 2015/863/EU REACH Regulation (EC) n°1907/2006	

(1) The type-examination certificate can be download from www.atos.com

4 HYDRAULIC CHARACTERISTICS

Valve model		ARE-06	ARE-15
Max pressure on port P	[bar]	420	420
Factory pressure setting range	[bar]	25÷420	25÷420
Max pressure on port T (1)	[bar]	50	50
Max flow. (2)	[l/min]	60	100

(1) Ped valves should be operated without counterpressure on T line, see note 2 at section 8

(2) For PED valves see diagrams at section 8

5 SEALS AND HYDRAULIC FLUIDS - for other fluids not included in below table, consult our technical office

Seals, recommended fluid temperature	NBR seals (standard) = $-20^{\circ}C \div +80^{\circ}C$, with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ FKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$ HNBR seals (/BT option) = $-40^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-40^{\circ}C \div +50^{\circ}C$			
Recommended viscosity	15÷100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s			
Max fluid contamination level	ISO 4406 class 20/18/15 NAS 1638 class 9, see also filter section www.atos.com or KTF catalog			
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard	
Mineral oils	NBR, FKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524	
Flame resistant without water	FKM	HFDU, HFDR	ISO 12922	
Flame resistant with water	NBR, HNBR	HFC		

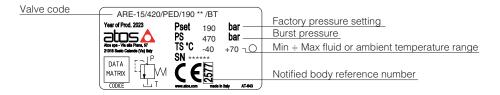
6 FACTORY PRESSURE SETTING

The /PED valves are factory set at the pressure level required by the costumer (min step: 1bar). The factory pressure setting is performed at the flow shown in the following table. The factory pressure setting is marked on the valve nameplate, see section $\boxed{\mathbf{7}}$

VALVE MODEL	FLOW FOR FACTORY PRESSURE SETTING (I/min)
ARE-06	2
ARE-15	2

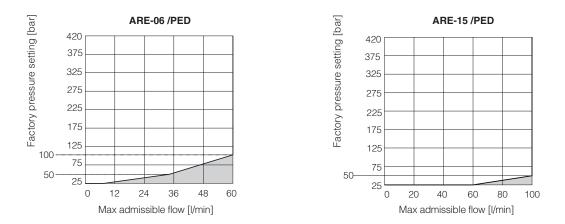
 \bigtriangleup Any tampering of the lead sealing invalidates the certification

7 NAMEPLATE MARKING



Note: TS values are referred to the extreme temperatures, regardless of whether the fluid or the ambient

8 PERMITTED WORKING RANGE (based on mineral oil ISO VG 46 at 50°C)



Notes:

1) The valves can operate only in the white area of the above diagrams.

The max admissible flow values within the white area are those for which the pressure increase remains within +10% with respect to the factory pressure setting.

Pressure / flow values located in gray areas cannot be performed.

A Before ordering the valve, check that the maximum admissible flow at the required pressure setting, is greater than the maximum flow rate of the system or the accumulator to be protected.

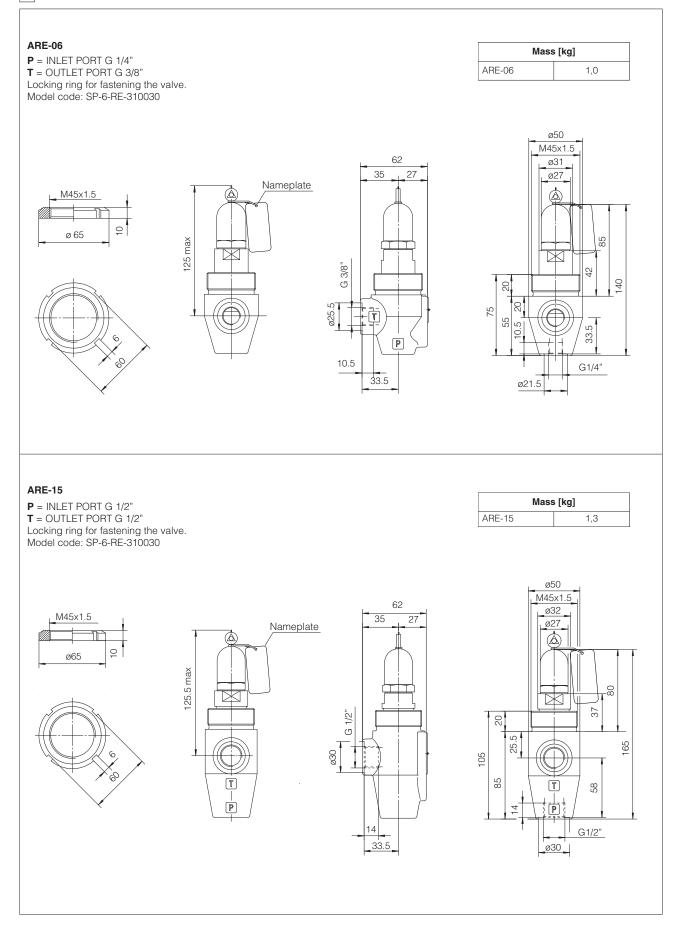
2) The working range in above diagrams is valid without counterpressure in T line.

The factory pressure setting is increased by the counterpressure valve in T line.

As general rule PED valves should be operated without counter pressure in the T line.

In case of counter pressure in T line, the maximum admissible flow has to be reduced with respect to the values reported in the diagram, so as not to exceed the limit of +10% with respect to the factory pressure setting. Contact Atos technical office for details.

9 INSTALLATION DIMENSIONS [mm]



10 RELATED DOCUMENTATION

CY900 Operating and maintenance information for PED certified valves