

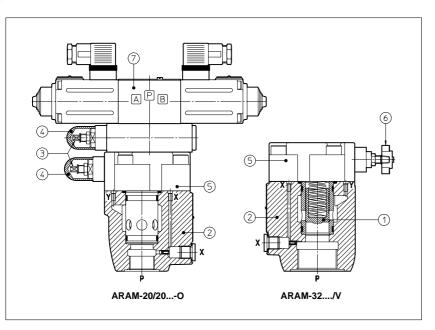
21018 Sesto Calende, Italy - Fax 0331 920005

www.khadamathydraulic.com

Tell: 021-55882749 Tell: 021-33488178 Fax: 021-33488105

Pressure relief valves type ARAM

two stage, in line mounting - 3/4" and 11/4 BSP threaded ports



ARAM are double stage pressure relief valve with balanced poppet and BSP threaded ports.

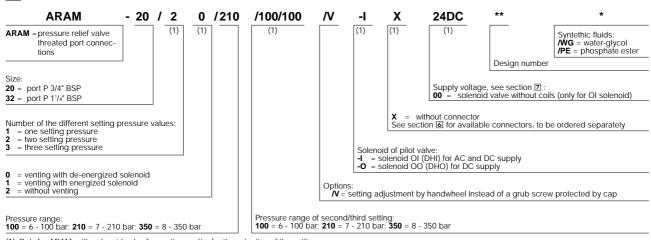
In standard versions the piloting pressu-re of the poppet (1) of the main stage (2) is regulated by means of a grub screw (3) protected by cap (4) in the cover (5). Optional versions with setting adjust ment by handwheel (6) instead of the grub screw are available on request. Clockwise rotation increases the pressure.

These valves can be equipped with a venting solenoid valve ⑦ (for normally open or normally closed valves). Another setting control can be made through the independent pilot port.

Threaded ports: 3/4" BSP, 11/4 BSP Max flow: 350, 500 l/min respectively. Pressure up to 350 bar.

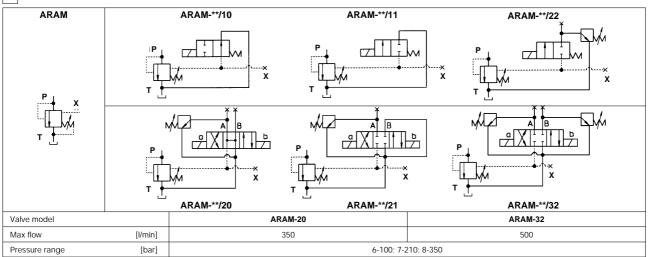
Valves designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics

1 MODEL CODE



(1) Only for ARAM with solenoid valve for venting and/or for the selection of the setting pressure

HYDRAULIC CHARACTERISTICS 2



3 MAIN CHARACTERISTICS OF PRESSURE CONTROL VALVES TYPE ARAM

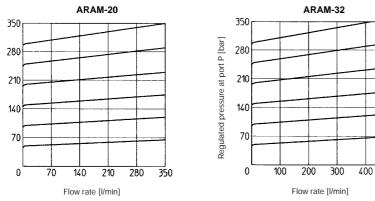
Assembly position / location	Any position
Ambient temperature	-20°C to + 70°C
Fluid	Hydraulic oil as per DIN 51524 535; for other fluids see section 1
Recommended viscosity	15 ÷ 100 mm²/s at 40°C (ISO VG 15 ÷100)
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μm value and $\beta_{25} \geq 75$ (recommended)
Fluid temperature	$T \le 80^{\circ}C$, if $T \ge 60^{\circ}C$ select /PE seals

500

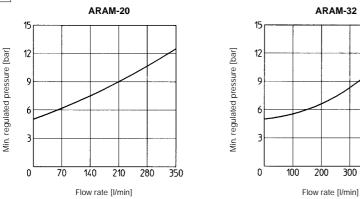
400

500

4 REGULATED PRESSURE VERSUS FLOW DIAGRAMS based on fluid viscosity of 25 mm²/s at 40° C







6 ELECTRIC CONNECTORS ACCORDING TO DIN 43650 FOR ARAM WITH SOLENOID VALVE

The connectors must be ordered separately

Code of connector	Function
SP-666	Connector IP-65, suitable for direct connection to electric supply source
SP-667	As SP-666 connector IP-65 but with built-in signal led, suitable for direct connection to electric supply source
SP-669	With built-in rectifier bridge for supplying DC coils by alternating current (AC). Only for versions -OX

For other available connectors see tab. E010 and K500.

7 ELECTRIC FEATURES FOR ARAM WITH SOLENOID VALVE

Type of solenoid	External supply nominal voltage (1) (2)		Type of connector	Power consumption (4)	Code of spare coil (6)	Colour of coil label
OI	DIRECT CURRENT	6 DC 12 DC 24 DC 48 DC	SP-666 or SP-667	33 W	SP-COU-6DC /80 SP-COU-12DC /80 SP-COU-24DC /80 SP-COU-48DC /80	brown green red silver
01	ALTERNATE CURRENT	110/50 AC (3) 120/60 AC 230/50 AC (3) 230/60 AC	SP-666 or SP-667	60 VA (5)	SP-COI-110/50/60AC /80 SP-COI-120/60AC /80 SP-COI-230/50/60AC /80 SP-COI-230/60AC /80	yellow white light blue silver
	DIRECT CURRENT	12 DC 24 DC	SP-666 or SP-667	32 W		
00		110 DC 220 DC		40 W	-	-
00	ALTERNATE CURRENT	110/50 AC 120/60 AC 230/50 AC 230/60 AC	SP-669	40 VA 35 VA 40 VA 35 VA		- - -

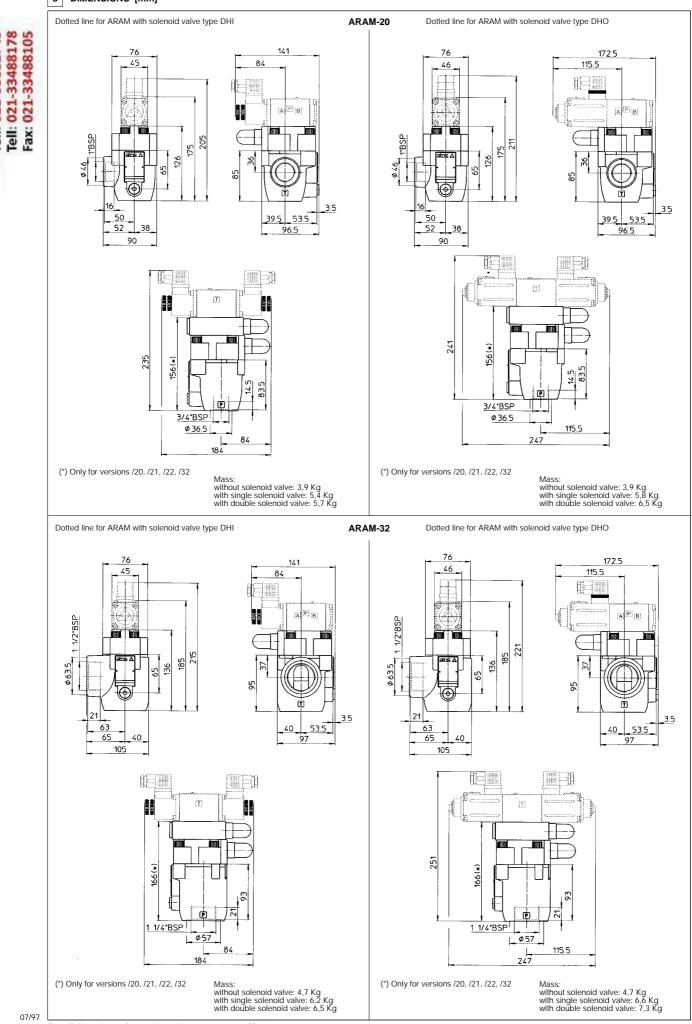
- (1) Tolerance on the nominal voltage is $\pm 10\%$.
- (2) For other supply voltages available on request see technical table E010.
- (3) Coil can be supplied also with 60 Hz of voltage frequency: in this case the performances are reduced by 10 ÷ 15% and the power consumption is 55 VA.
- (4) Average values based on tests performed at nominal hydraulic condition and ambient/coil temperature of 20°C.
- (5) When solenoid is energized, the inrush current is approx 3 times the holding current. Inrush current values correspond to a power consumption of about 150 VA.
- (6) Protection class H; Duty cycle: 100%. Connector protection degree: IP 65.



Regulated pressure at port P [bar]

8 DIMENSIONS [mm]

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Overall dimensions refer to valves with connectors type SP-666