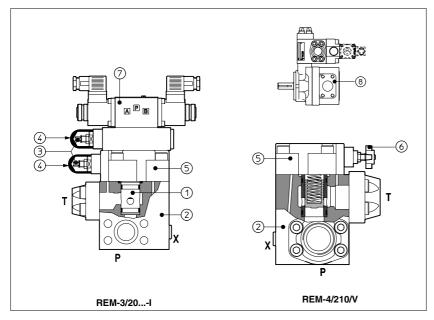


Pressure relief valves type REM

two stage, flange mounting SAE 3/4", 1", 11/4"



REM are double stage pressure relief valves with balanced poppet and SAE flange connection, designed to operate in oil hydraulic systems.

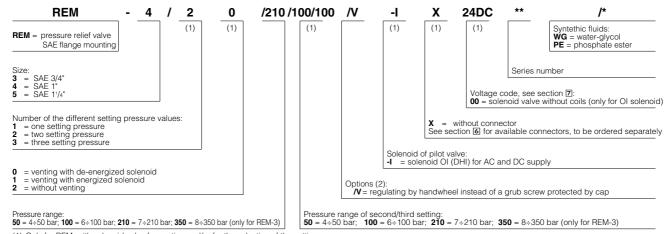
They can be direct by mounted with SAE flange attachments on the pumps **outlet ports** (a) and, in particular, on the PFE pumps (see tab. A005, A007).

In standard versions the piloting pressure 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 adjustment by handwheel ⑥ instead of the grub screw are available on request. Clockwise rotation increases the pressure.

REM can be equipped with a venting solenoid valve ⑦ (for normally open or normally closed valves).

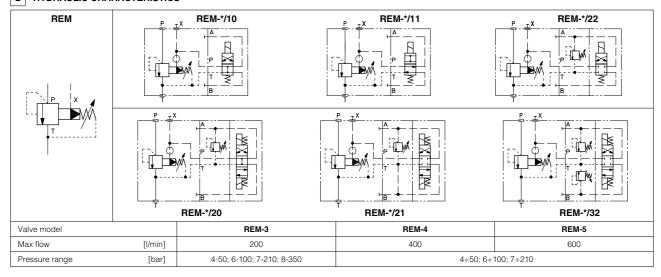
Mounting surface: SAE flange connection: 3/4", 1", 1"/4" Max flow: 200, 400 and 600 I/min respectively Pressure up to 350 bar (depending on

1 MODEL CODE



(1) Only for REM with solenoid valve for venting and/or for the selection of the setting pressure (2) For handwheel features, see technical table K150

2 HYDRAULIC CHARACTERISTICS



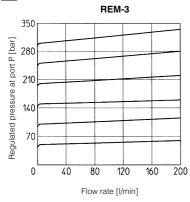
3 MAIN CHARACTERISTICS OF PRESSURE RELIEF VALVES TYPE REM

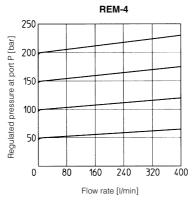
Assembly position	These valves can be installed in any position on the outlet port P of pumps with SAE flange attachments and in particular on PFE vane pumps			
Subplate surface finishing	Roughness index $\sqrt{\frac{0.4}{1}}$, flatness ratio 0,01/100 (ISO 1101)			
Ambient temperature	-20°C to + 70°C			
Fluid	Hydraulic oil as per DIN 51524 535; for other fluids see section 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 β₂ ≥ 75 (recommended)			
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)			

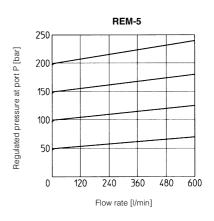
3.1 Coils characteristics

Insulation class			
Insulation class			
Connector protection degree	IP 65		
Relative duty factor	100%		
Supply voltage and frequency	See electric feature 🛽		
Supply voltage tolerance	± 10%		

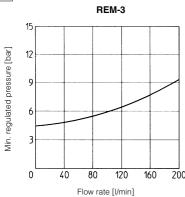
4 REGULATED PRESSURE VERSUS FLOW DIAGRAMS based on fluid viscosity of 25 mm²/s at 40°

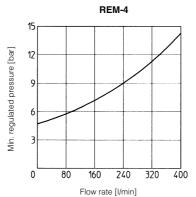


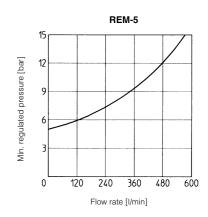




5 MINIMUM PRESSURE VERSUS FLOW DIAGRAMS based on fluid viscosity of 25 mm²/s at 40° C







6 ELECTRIC CONNECTORS ACCORDING TO DIN 43650 FOR REM 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		

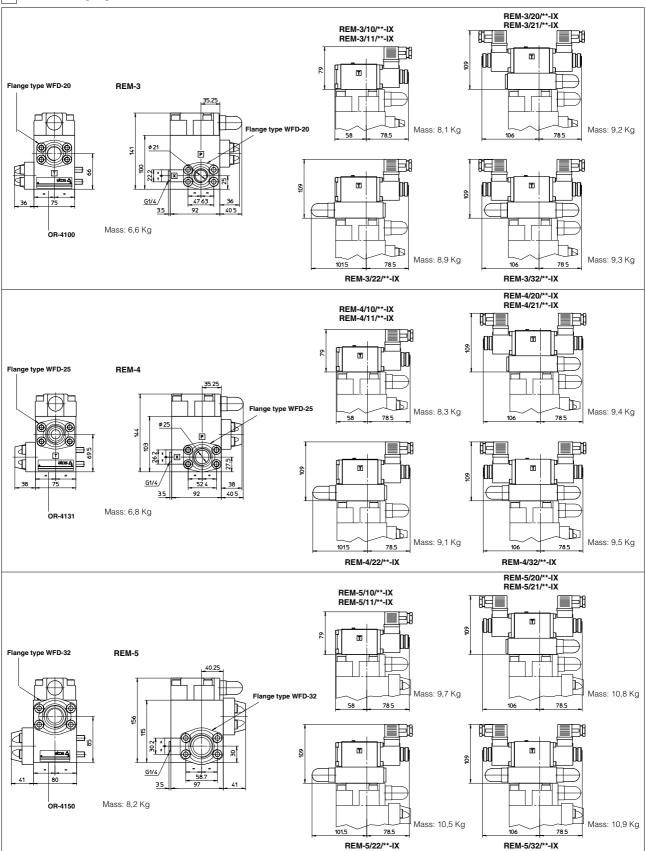
For other available connectors, see tab. E010 and K500.

7 ELECTRIC FEATURES FOR REM WITH SOLENOID VALVE

	Type of solenoid	External supply nominal voltage ± 10% (1)		Voltage code	Type of connector	Power consumption (3)	Code of spare coil	Colour of coil label
	OI	DC	6 DC 12 DC 24 DC 48 DC	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
	Oi	ΔC	110/50 AC (2) 120/60 AC 230/50 AC (2) 230/60 AC	110/50/60 AC 120/60 AC 230/50/60 AC 230/60 AC	SP-666 or SP-667	60 VA (4)	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

- (1) For other supply voltages available on request see technical table E010.
- (2) 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.
- (3) Average values based on tests performed at nominal hydraulic condition and ambient/coil temperature of 20°C.
- (4) 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.

8 DIMENSIONS [mm]



For dimensions of flanges, see tab. K120. Overall dimensions refer to valves with connectors type SP-666.

9 ASSEMBLY EXAMPLE OF A REM VALVE ON A PFE PUMP

