



RQ*M*-P

UNLOADING VALVE
WITH AUTOMATIC OR
SOLENOID OPERATED VENTING
(FOR CIRCUITS WITH ACCUMULATOR)

SERIES 51

RQRM*-P

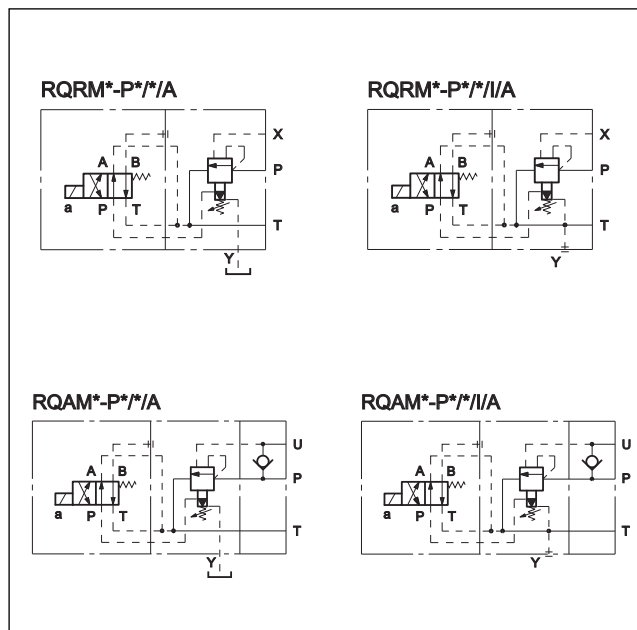
FOR REMOTE PILOTING

RQAM*-P

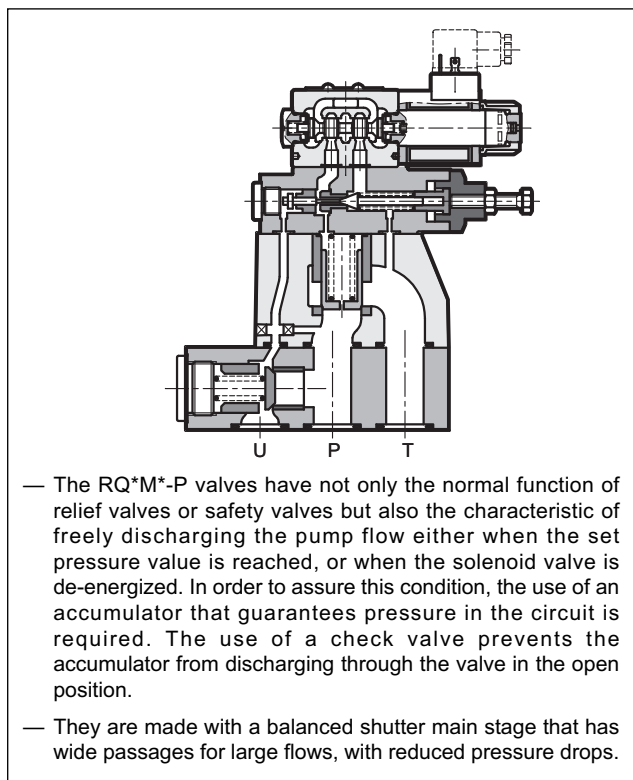
WITH INCORPORATED CHECK VALVE

SUBPLATE MOUNTING

HYDRAULIC SYMBOLS



OPERATING PRINCIPLE



PERFORMANCES

(measured with mineral oil of viscosity 36 cSt at 50°C)

		RQRM3-P	RQRM5-P	RQRM7-P	RQAM5-P	RQAM7-P
Maximum operating pressure	bar	350				
Maximum flow rate	l/min	200	400	500	400	500
Ambient temperature range	°C	-20 / +50				
Fluid temperature range	°C	-20 / +80				
Fluid viscosity range	cSt	10 ÷ 400				
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15					
Recommended viscosity	cSt	25				
Mass	Kg	5	5,8	8	12	19

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RQ*M*-P

SERIES 51

1 - IDENTIFICATION CODE

R	Q	M	-	P	/	/	A	/	/	/	51	-	K1	/	
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Unloading valve

Automatic venting for circuits with accumulator
R = for remote piloting
A = with embedded check valve (unavailable on size 3)

Solenoid valve for electrical unloading

Size:
3 = (RQRM3-P) ISO 6264-06-09-*-97 (CETOP R06)
5 = (RQRM5-P) ISO 6264-08-13-*-97 (CETOP R08)
5 = (RQAM5-P)
7 = (RQRM7-P) ISO 6264-10-17-*-97 (CETOP R10)
7 = (RQAM7-P)

Subplate mounting

Pressure adjustment range:
3 = up to 70 bar **6** = up to 280 bar
5 = up to 210 bar

Differential pressure (values $\pm 2.5\%$)
1 = pump switch on at 75% of the set value
2 = pump switch on at 63% of the set value

Unloading with de-energized solenoid

I = internal drainage (not possible when the backpressure on the return line is greater than 2 bar). Omit for external drainage.

CM = manual override, boot protected.
Omit for override integrated in the tube (standard)

Coil electrical connection: plug for connector type DIN 43650 (standard)

DC power supply
D12 = 12 V
D24 = 24 V
D48 = 48 V
D110 = 110 V
D220 = 220 V
D00 = valve without coils (see NOTE)

AC power supply
A24 = 24 V - 50 Hz
A48 = 48 V - 50 Hz
A110 = 110 V - 50 Hz / 120 V - 60 Hz
A230 = 230 V - 50 Hz / 240 V - 60 Hz
A00 = valve without coils (see NOTE)
F110 = 110 V - 60 Hz
F220 = 220 V - 60 Hz

Seals:
N = NBR seals for mineral oil (standard)
V = FPM seals for special fluids

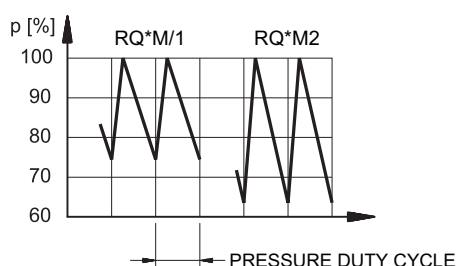
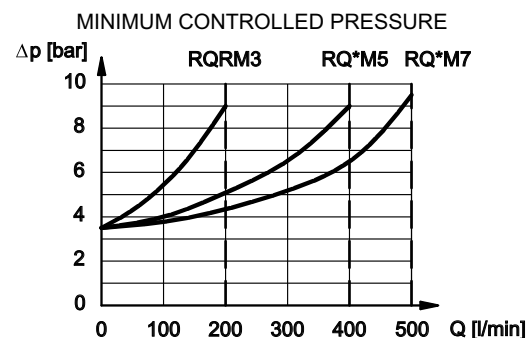
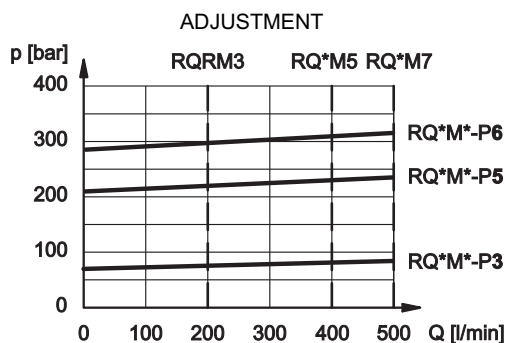
Series No. (the overall and mounting dimensions remain unchanged from 50 to 59)

M = adjustment with SICBLOC knob (omit for adjustment with hexagonal head screw)

NOTE: The locking rings of the coils and the relevant O-Rings are supplied together with valves

2 - CHARACTERISTIC CURVES

(values obtained with viscosity of 36 cSt at 50°C)



3 - HYDRAULIC FLUIDS

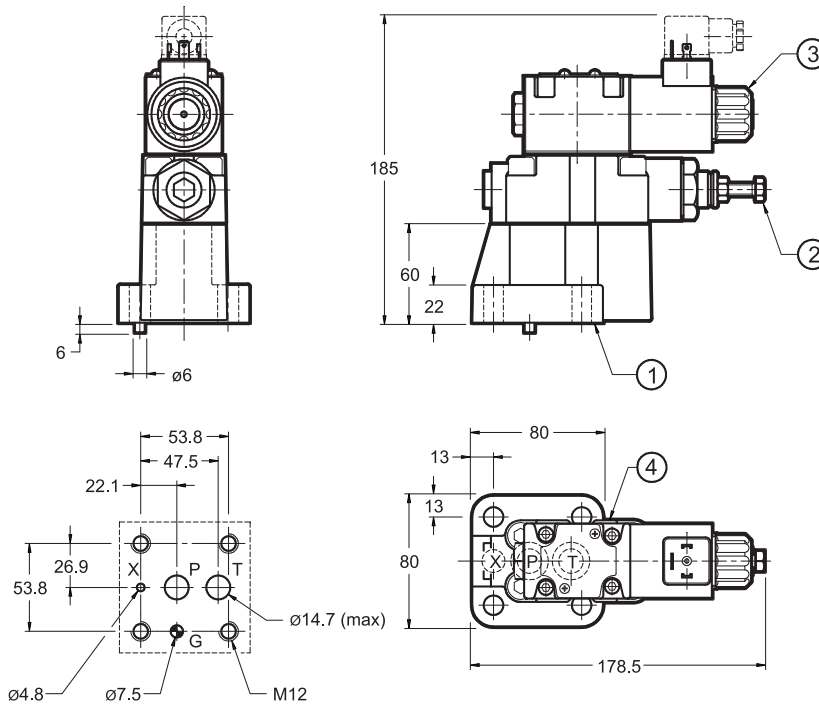
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department.

Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.

The fluid must be preserved in its physical and chemical characteristics.

4 - RQRM3-P OVERALL AND MOUNTING DIMENSIONS

dimensions in mm



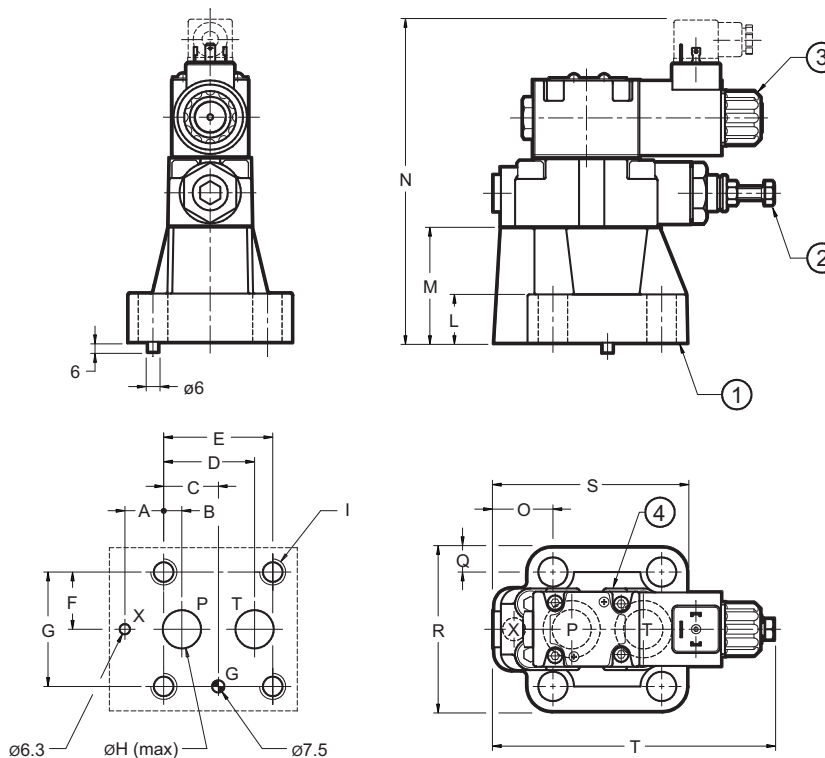
MOUNTING SURFACE: ISO 6264-06-09-*-97 (CETOP 4.4.2-2-R06-350)

1	Mounting surface with sealing rings: N. 2 OR type 123 (17.86x2.62) 90 Shore N. 1 OR type 109 (9.13x2.62) 90 Shore
2	Hexagonal head main pressure adjustment screw. Spanner 13. Clockwise rotation to increase pressure.
3	ISO 4401-03 (CETOP 03) solenoid valve for unloading
4	External drainage port Y 1/8" NPT

FASTENING BOLTS:
4 bolts M12x40 Torque: 69 Nm

5 - RQRM5-P AND RQRM7-P OVERALL AND MOUNTING DIMENSIONS

dimensions in mm



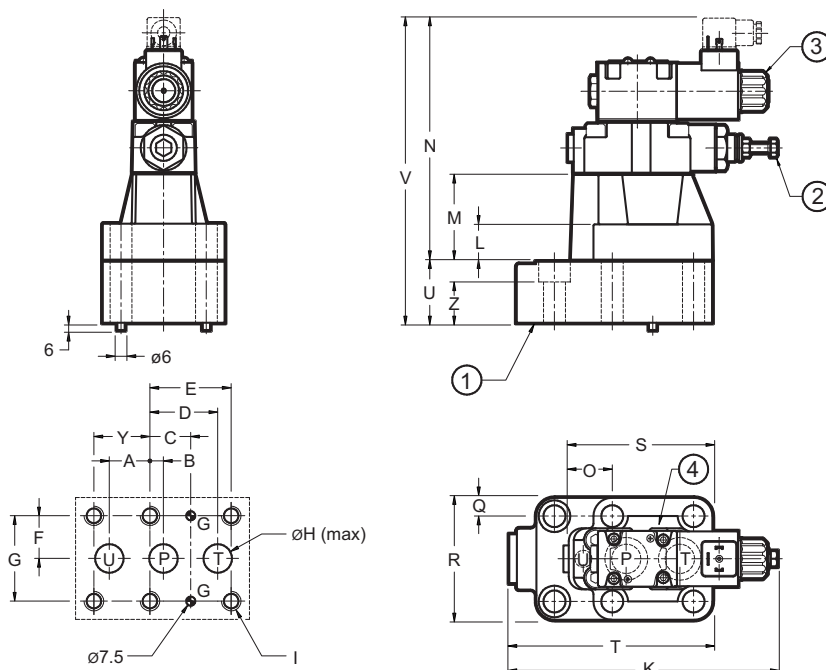
1	Mounting surface with sealing rings: RQRM5 N. 2 OR type 3118 (29.82x2.62) - 90 Shore N. 1 OR type 109 (9.13x2.62) - 90 Shore RQRM7 N. 2 OR type 4137 (34.52x3.53) - 90 Shore N. 1 OR type 109 (9.13x2.62) - 90 Shore
2	Hexagonal head main pressure adjustment screw. Spanner 13. Clockwise rotation to increase pressure.
3	ISO 4401-03 (CETOP 03) solenoid valve for unloading
4	External drainage port Y 1/8" NPT

FASTENING BOLTS:
RQRM5
4 bolts M16x50 Torque: 170 Nm
RQRM7
4 bolts M18x60 Torque: 235 Nm

MOUNTING SURFACE		A	B	C	D	E	F	G	ØH	I	L	M	N	O	Q	R	S	T
RQRM5-P	ISO 6264-08-13-*-97 (CETOP 4.4.2-2-R08-350)	23.8	11.1	33.4	55.6	66.7	35	70	23.4	M16	27	70	194	35.8	15	100	118	170
RQRM7-P	ISO 6264-10-17-*-97 (CETOP 4.4.2-2-R10-350)	31.8	12.7	44.5	76.2	88.9	41.3	82.6	32	M18	35	80	204	44.1	18.7	120	152	180

6 - RQAM5-P AND RQAM7-P OVERALL AND MOUNTING DIMENSIONS

dimensions in mm



1	Mounting surface with sealing rings: RQAM5 N. 2 OR type 3118 (29.82x2.62) - 90 Shore RQAM7 N. 2 OR type 4137 (34.52x3.53) - 90 Shore
2	Hexagonal head main pressure adjustment screw. Spanner 13. Clockwise rotation to increase pressure.
3	ISO 4401-03 (CETOP 03) solenoid valve for unloading
4	External drainage port Y 1/8" NPT

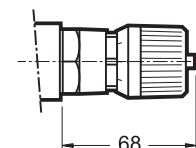
FASTENING BOLTS:

RQAM5	RQAM7
4 bolts M16x100	4 bolts M18x130
2 bolts M16x55	2 bolts M18x70
Torque: 170 Nm	Torque: 235 Nm

	A	B	C	D	E	F	G	ØH	I	K	L	M	N	O	Q	R	S	T	U	V	Y	Z
RQAM5-P	33.3	11.1	33.4	55.6	66.7	35	70	23.4	M16	212	27	70	194	35.8	15	100	118	160	50	244	46	33.5
RQAM7-P	38	12.7	44.5	76.2	88.9	41.3	82.6	32	M18	242	35	80	204	44.1	18.7	120	152	218	66	270	50.8	48

7 - ADJUSTMENT KNOB

The RQ*M*-P valves can be equipped with a SICBLOC adjustment knob. To operate it, push and rotate at the same time. To request this option, add: /M (see paragraph 1).



8 - ELECTRIC CONNECTORS

The solenoid valves are never supplied with connectors. Connectors must be ordered separately, please see catalogue 49 000.

9 - MANUAL OVERRIDE, BOOT PROTECTED: CM

Whenever the solenoid valve installation may involve exposure to atmospheric agents or utilization in tropical climates, use of the manual override, boot protected is recommended. Add the suffix **CM** to request this device (see paragraph 1).

For overall dimensions see catalogue 41 150.

10 - SUBPLATES

(see catalogue 51 000)

	RQRM3-P	RQRM5-P	RQRM7-P	RQAM5-P	RQAM7-P
Type	PMRQ3-AI4G rear ports	PMRQ5-AI5G rear ports	PMRQ7-AI7G rear ports	PMRQA5-AI5G rear ports	PMRQA7-AI7G rear ports
P, T, U ports dimensions	P: 1/2" BSP T: 3/4" BSP	1" BSP	1" 1/4 BSP	3/4" BSP	1" 1/4 BSP
X port dimensions	1/4" BSP	1/4" BSP	1/4" BSP	-	-

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