



RM*-W PRESSURE CONTROL VALVES

RM2-W SERIES 31

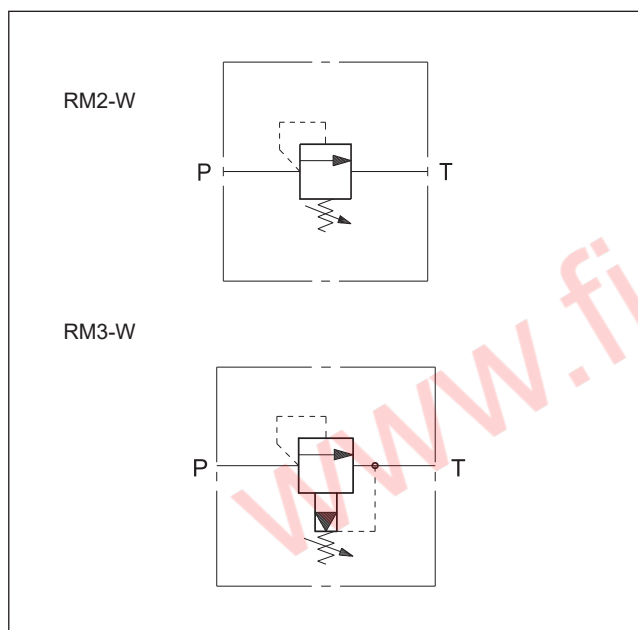
RM3-W SERIES 30

THREADED PORTS

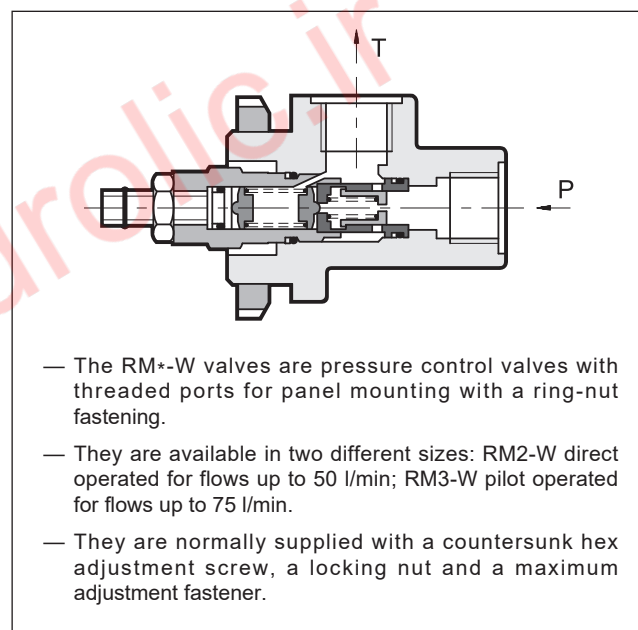
p max **350** bar

Q max (see table of performances)

HYDRAULIC SYMBOLS



OPERATING PRINCIPLE



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

		RM2-W	RM3-W
Maximum operating pressure	bar	350	
Minimum controlled pressure		see diagram	
Maximum flow rate	l/min	50	75
Ambient temperature range	°C	-20 / +60	
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	0,9	

1 - IDENTIFICATION CODE

Example: RM2-W3/31N/K
RM3-W3/M1/30/V

R Pressure control valve

M Nominal dimension:
2 = 3/8" **3** = 1/2"

- Threaded ports BSP

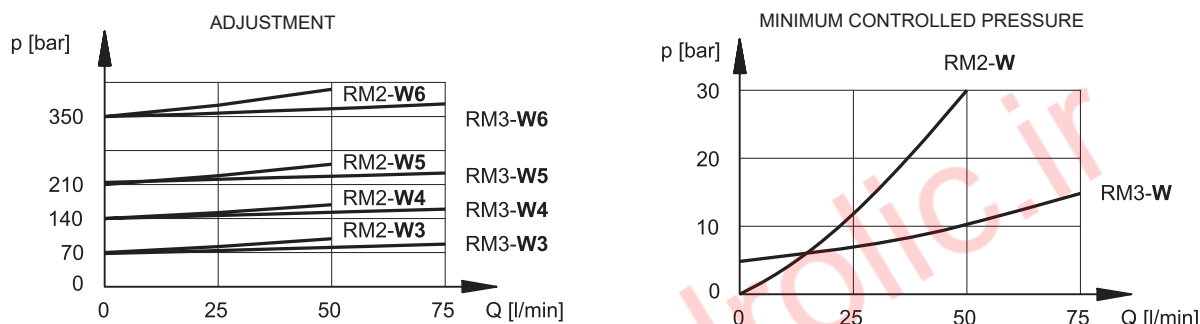
W Pressure adjustment range:
3 = up to 70 bar **5** = up to 210 bar
4 = up to 140 bar **6** = up to 350 bar

/ Series no: **31** for RM2-W **30** for RM3-W

M1 only for RM2: Seals
N = NBR seals for mineral oils (**standard**)
V = FPM seals for special fluids

K only for RM2: /K = Adjustment knob (omit for adjustment with countersunk hex screw)

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 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

The figure includes three technical drawings of the pressure washer head:

- Top View:** Shows a circular head with an outer diameter of 54 mm and an inner mounting hole diameter of 33 mm. The central nozzle opening has a diameter of 35 mm.
- Side View:** Shows the overall length of 74 mm and a mounting flange with a diameter of Ø 31 mm. Callouts 8 and 7 point to the locking ring and adjustment knob respectively.
- Detailed Side View:** A cross-sectional view showing internal components labeled 1 through 5. Key dimensions include:
 - Min 5 max 8 mm for the top screw assembly.
 - M45x1.5 thread for the locking nut (2).
 - 19 mm distance from the top of the housing to the start of the outlet port.
 - 18 mm distance from the bottom of the housing to the start of the outlet port.
 - 64 mm total length of the outlet port section.
 - 120 mm total length of the main body.

1	Countersunk hex adjustment screw: RM2-W: spanner 6 RM3-W: spanner 5 Clockwise rotation to increase pressure
2	Locking nut: RM2-W: spanner 19 RM3-W: spanner 17
3	Ring-nut for flange mounting type SKF KM9
4	Outlet port 1/2" BSP
5	Pressure port: RM2-W: 3/8" BSP RM3-W: 1/2" BSP
6	Adjustment knob: RM3-W: M1
7	Adjustment knob: RM2-W: K
8	Locking ring