



**RD08LH type
pressure reducing valves – 3 way**

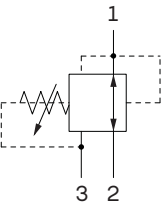
- Direct acting damped with relieving
- Spool type
- Mechanical control with screw adjustment
- Different springs available to vary pressure range (from 10 to 150 bar - 145 to 2175 psi)
- Applications for high flow rates (max. 350 bar - 5100 psi) and high flow rates (30 l/min - 7.9 US gpm)
- Available with or without filter (mesh-type 90 microns)
- The backpressure values on line 3 must be added to valve nominal setting

Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

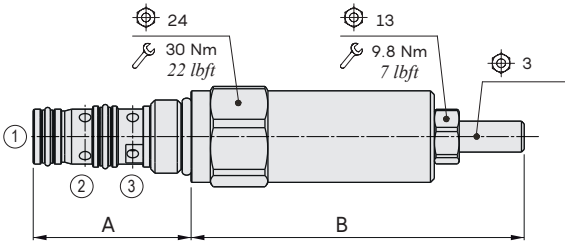
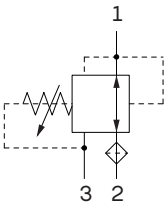
Nominal flow	30 l/min (7.9 US gpm)	
Max. pressure	Port 2 = 350 bar (5100 psi) Port 3 = 30 bar (435 psi)	
Oil leakage	-	
Fluid	mineral based or synthetic hydraulic fluid with lubricating properties	
Viscosity	10-200 cSt	
Max level of contamination	20/18/14 ISO4406	
Fluid temperature	with NBR seals+Polyurethane with FPM seals	from -25°C (-13°F) to 90°C (194°F) from -20°C (-4°F) to 110°C (230°F)
Environmental temp. for working conditions	from -20°C (-4°F) to 60°C (140°F)	
Cavity	SAE 08/3	
Weight	0.250 kg (0.55 lb)	

NOTE - For different conditions, please contact Walvoil Sales Dpt.

**Configuration
without filter**

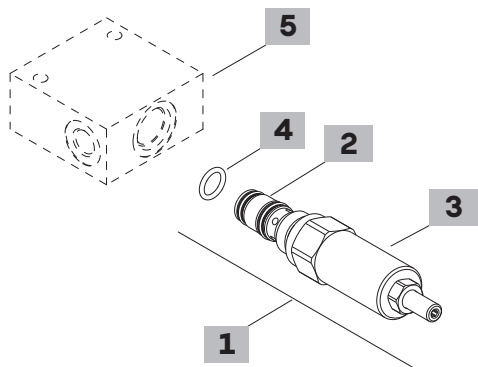
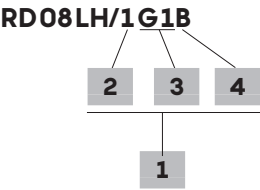


**Configuration
with filter**



Valve type	A		B	
	mm	in	mm	in
G1B	41.1	1.62	86.7	3.41
RD08LH/ G2B	41.1	1.62	86.7	3.41
G3B	41.1	1.62	81.6	3.21

Ordering codes and description composition



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/3		
RD08LH/0G1B	ORD08002053	Pressure range G1 , without filter
RD08LH/1G1B	ORD08002054	Pressure range G1 , with filter
RD08LH/0G2B	ORD08002055	Pressure range G2 , without filter
RD08LH/1G2B	ORD08002056	Pressure range G2 , with filter
RD08LH/0G3B	ORD08002057	Pressure range G3 , without filter
RD08LH/1G3B	ORD08002058	Pressure range G3 , with filter

2 Filter

TYPE	DESCRIPTION
0	Without filter
1	Mesh filter: 90 micron

3 Pressure range

Standard setting is referred to 5 l/min (1.32 Us gpm) flow	
TYPE	DESCRIPTION
G1	Pressure range 10÷50 bar (145÷725 psi); Std. setting 30 bar (435 psi)
G2	Pressure range 40÷100 bar (580÷1450 psi); Std. setting 50 bar (725 psi)
G3	Pressure range 70÷150 bar (1015÷2175 psi); Std. setting 100 bar (1450 psi)

4 Seals

TYPE	DESCRIPTION
B	NBR (Buna) + Polyurethane o-ring seals, std configuration
V	FPM (Viton) o-ring seals, contact Sales Dept

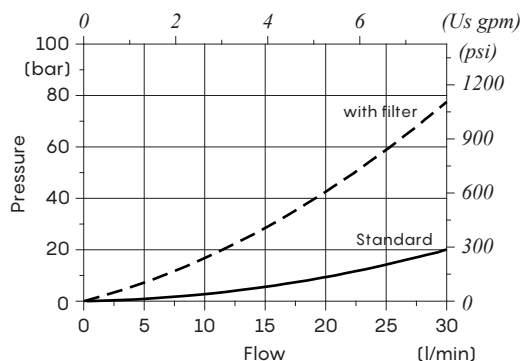
5 Valve body

TYPE	CODE	DESCRIPTION
SAE08/3-G 3/8	3CC0830C11	Aluminium body for cavity 08 valve, G 3/8 std thread

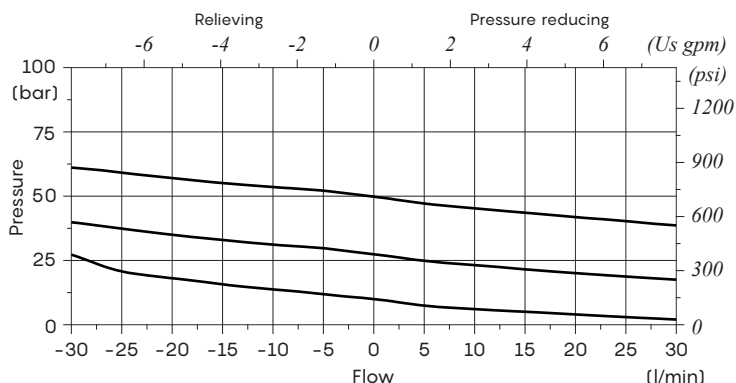
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 210

Rating diagrams

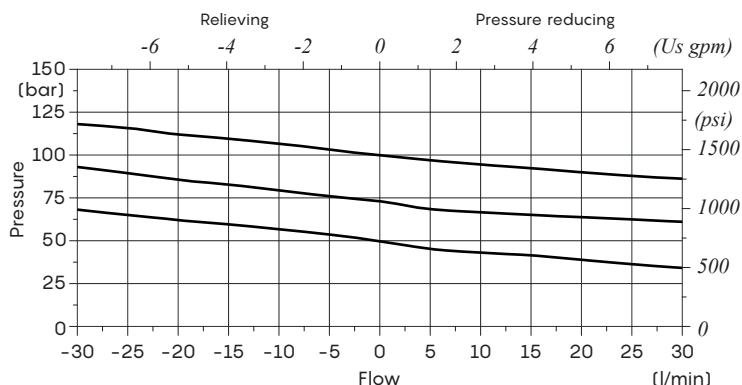
Pressure vs. flow 2->1



**G1 pressure range
reducing/relieving pressure vs. flow**



**G2 pressure range
reducing/relieving pressure vs. flow**



**G3 pressure range
reducing/relieving pressure vs. flow**

