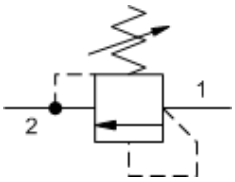
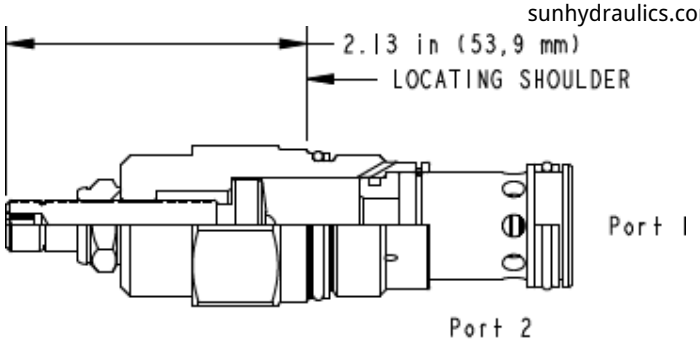
MODEL
RGFA

Low-pressure-range, direct-acting relief valve
SERIES 2 / CAPACITY: 200 L/min. / CAVITY: T-3A

sunhydraulics.com/model/RGFA





CONFIGURATION

L	Control	Standard Screw Adjustment
E	Adjustment Range	20 - 75 psi (1,4 - 5 bar), 75 psi (5 bar) Standard Setting
N	Seal Material	Buna-N
(none)	Material/Coating	

Direct-acting relief cartridges are normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-3A
Series	2
Capacity	200 L/min.
Maximum Operating Pressure	350 bar
Factory Pressure Settings Established at	15 L/min.
Maximum Valve Leakage at 110 SUS (24 cSt)	50 cc/min.@70 bar
Response Time - Typical	10 ms
Adjustment - No. of CW Turns from Min. to Max. setting	6
Valve Hex Size	28,6 mm
Valve Installation Torque	61 - 68 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990203007
Seal kit - Cartridge	EPDM: 990203014
Seal kit - Cartridge	Polyurethane: 990003002
Seal kit - Cartridge	Viton: 990203006
Model Weight	0.25 kg.

NOTES

For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

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CONFIGURATION OPTIONS

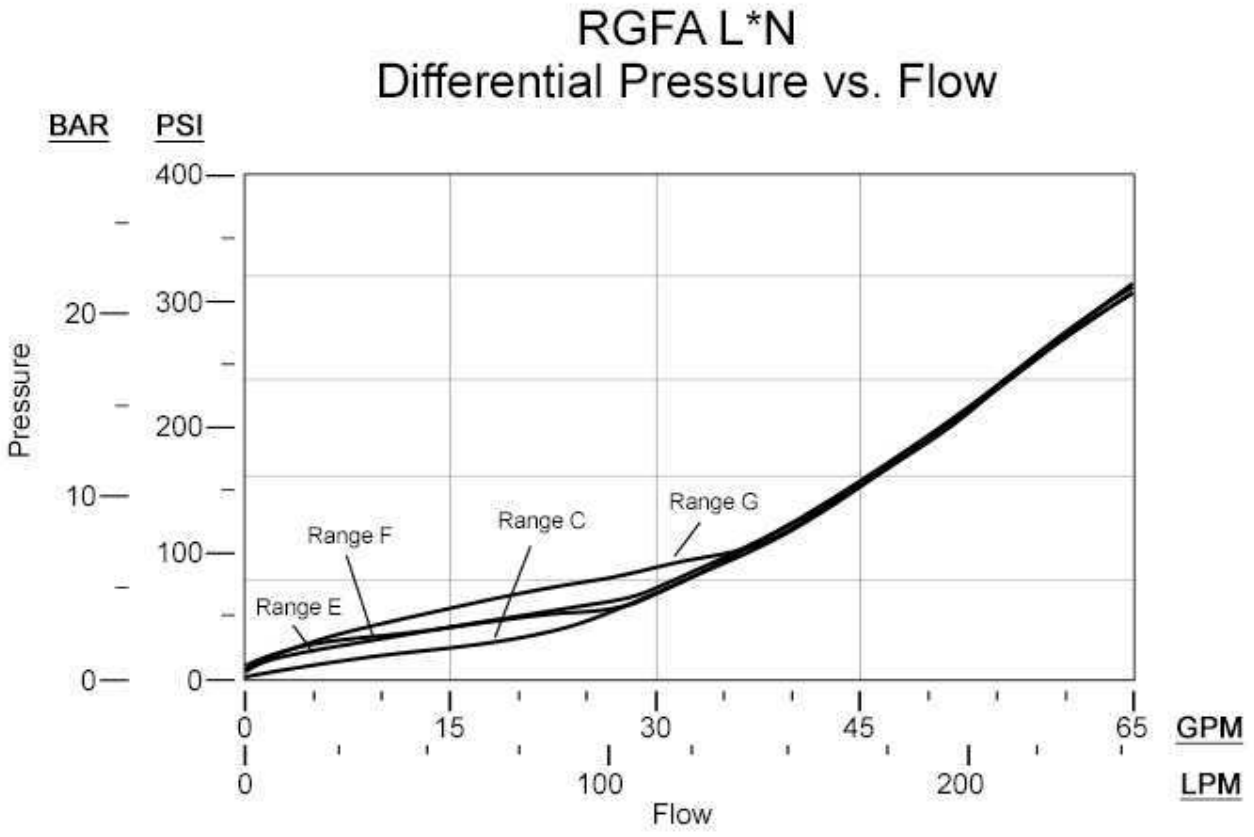
Model Code Example: RGFAArray

CONTROL (L)	ADJUSTMENT RANGE (E)	SEAL MATERIAL (N)	MATERIAL/COATING
L Standard Screw Adjustment	**E** 20 - 75 psi (1,4 - 5 bar), 75 psi (5 bar) Standard Setting	**N** Buna-N	Standard Material/Coating
C Tamper Resistant - Factory Set	**C** 18 - 50 psi (1,2 - 3,5 bar), 50 psi (3,5 bar) Standard Setting	**E** EPDM	**/AP** Stainless Steel, Passivated
K Handknob	**F** 35 - 80 psi (2,4 -5,5 bar), 80 psi (5,5 bar) Standard Setting	**V** Viton	
O Handknob with Panel Mount	**G** 30 - 150 psi (2 - 10,5 bar), 150 psi (10,5 bar) Standard Setting		

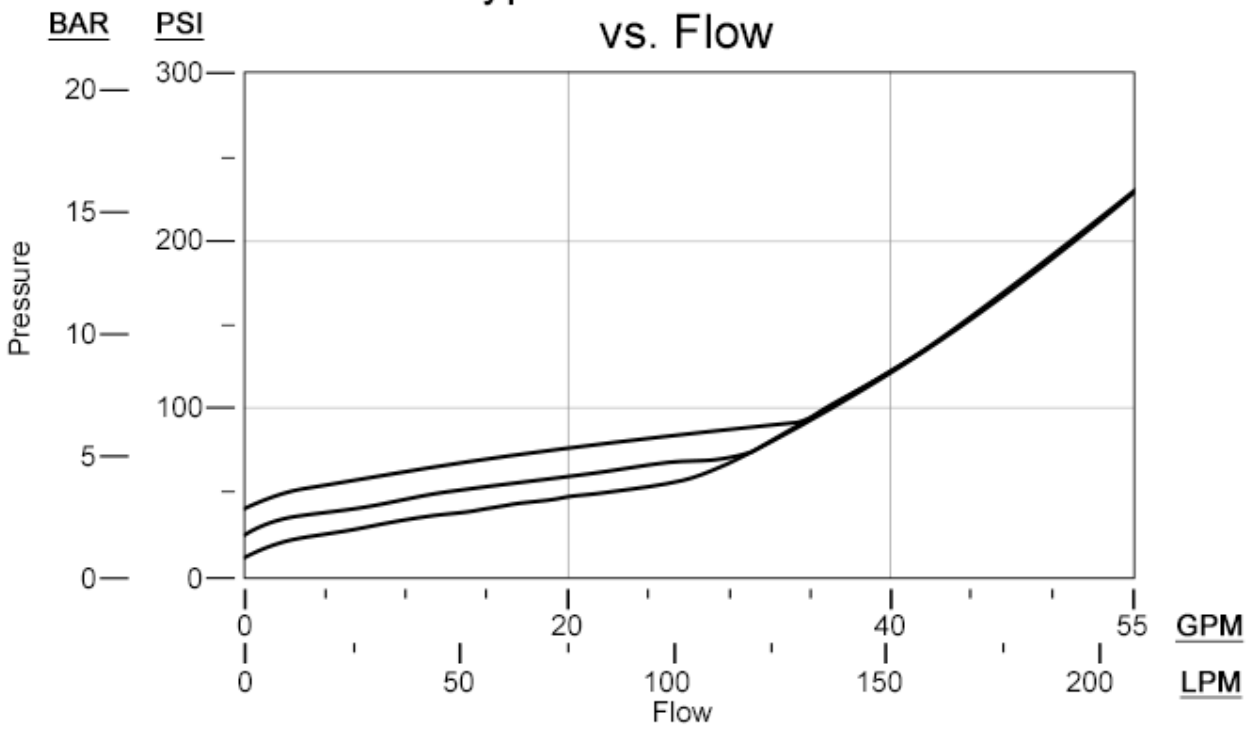
TECHNICAL FEATURES

- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.
- Not suitable for use in load holding applications due to spool leakage.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

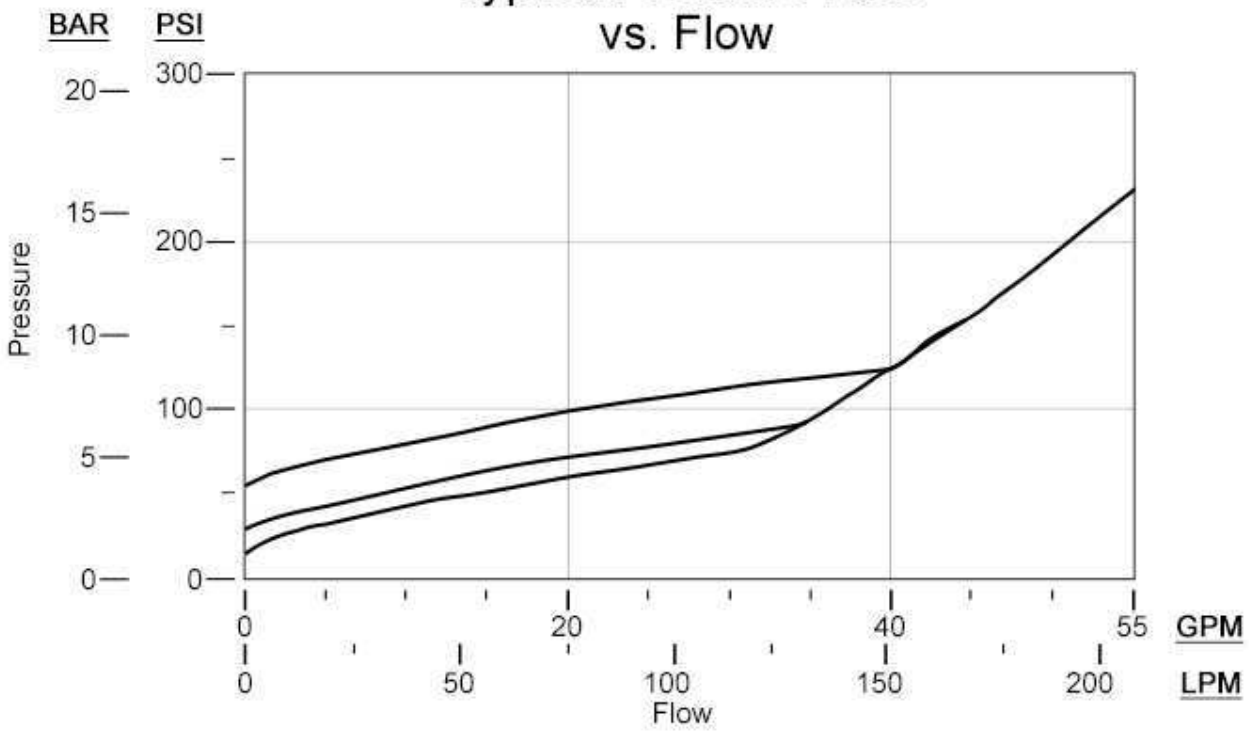
PERFORMANCE CURVES



RGFA LCN
Typical Pressure Rise vs. Flow

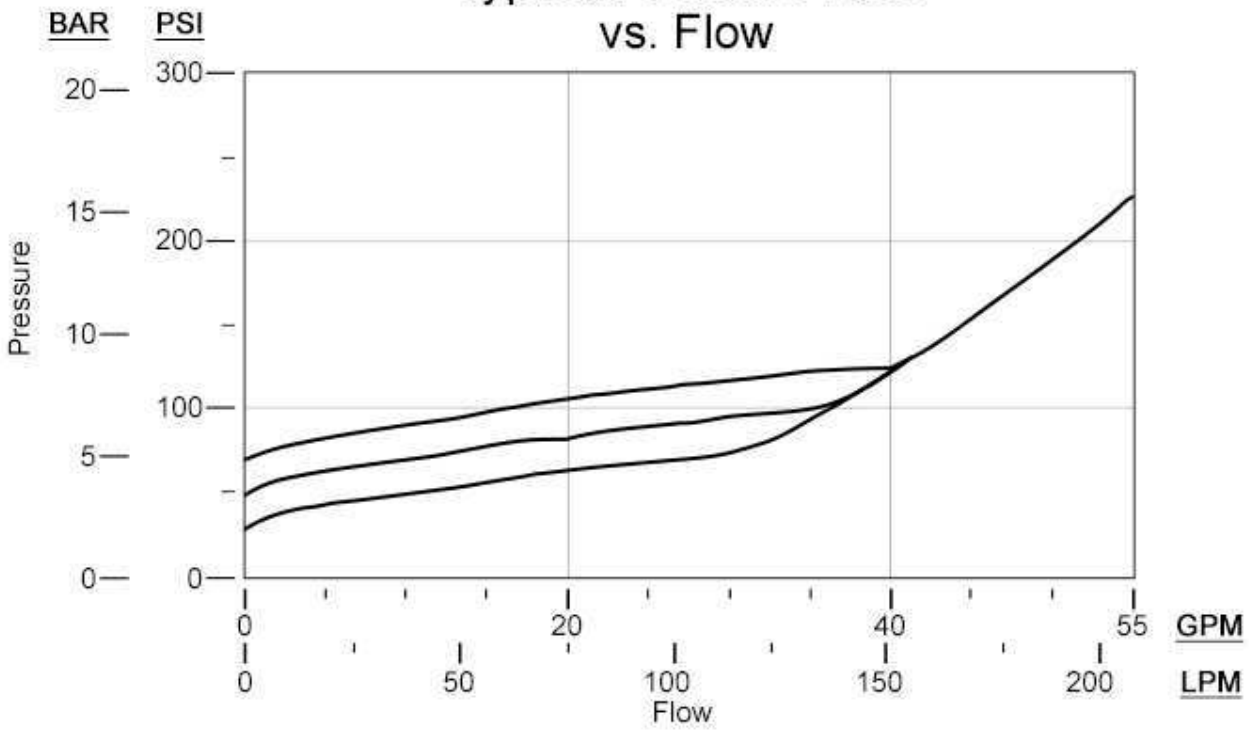


RGFA LEN
Typical Pressure Rise vs. Flow

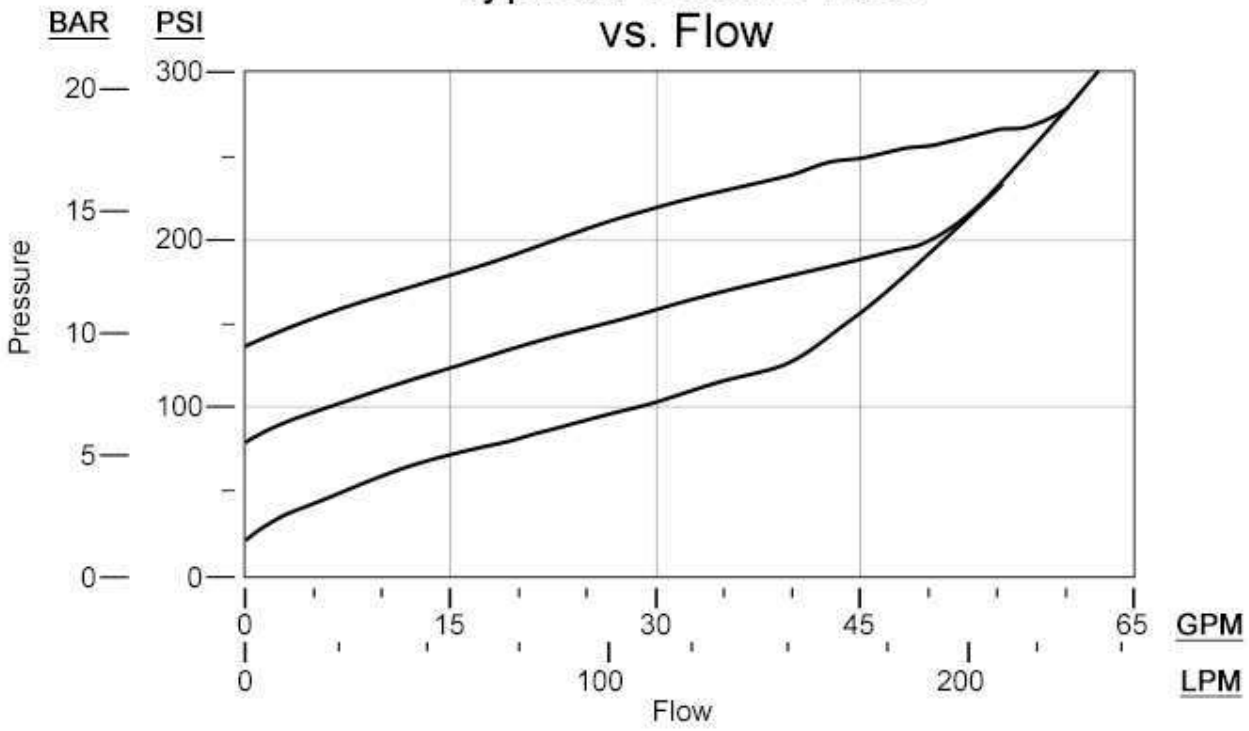


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RGFA LFN
Typical Pressure Rise vs. Flow



RGFA LGN
Typical Pressure Rise vs. Flow



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