

spirax sarco®

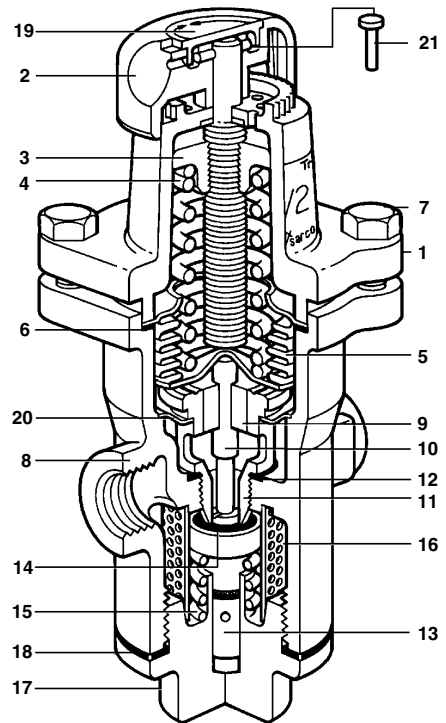
Direct Operated Pressure Regulator LRV2

The LRV2 is a direct operated pressure regulator suitable for liquid applications.

Model ⇔	LRV2S
Sizes	1/2", 3/4", 1"
Connections	NPT
Construction	Bronze
Options	LRV2B with phosphor bronze/brass bellows. LRV2S with stainless steel (316Ti/316L) bellows.

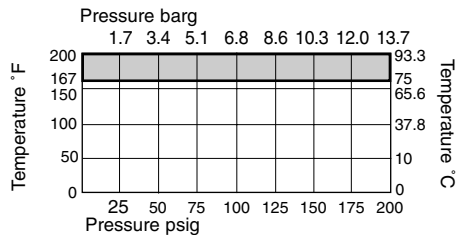
CONSTRUCTION MATERIALS

No.	Part	Material Spec.	Closest Equivalent
1	Spring Housing	Aluminum - Epoxy coated LM 24	
2	Adjustment Hand Wheel	Plastic—Polypropylene	
3	Top Spring Plate	Cast Iron DIN 1691 GG 20	ASTM A27B Cl.30
4	Pressure Adjustment Spring	Silicone Chrome BS 2803 685 A55 Spring Steel Range 2	
5	Bellows Assembly	Stainless Steel optional 316Ti/316L	316Ti/316L
6	Bellows Assembly Gasket	Reinforced Exfoliated Graphite	
7	Cap Screws	Steel—Zinc plated BS 3692 Gr 8.8 M8 x 25 mm	ANSI B18.2.3.2M
8	Body	Bronze BS1400 LG2	ASTM B62 UNS 083600
9	Guide Bush	Graphite filled PTFE	
10	Pushrod	Stainless Steel ASTM A276 316L	
11	Valve Seat	Stainless Steel BS 970 431 S29	ASTM A276 Gr. 431
12	Valve Seat Gasket	Stainless Steel BS 1449 316 S11	AISI 316
13	Piston	Stainless Steel BS970 431 S29	ASTM A276 Gr.431
14	Valve Head	Nitrile Rubber	
15	Piston Return Spring	Stainless Steel BS2056 Gr302 S26	
16	Strainer Screen	Stainless Steel BS 1449 304 S16	AISI 304
17	Cap	Brass BS 2872 CZ 122	ASTM B283 UNS 3770
18	Cap Gasket	Reinforced Exfoliated Graphite	
19	Spring Range ID Plate	Polypropylene	
20	Bulkhead Plate	Stainless Steel 316L	
21	Tamperproof Pin	Mild Steel - Copper Plated	



LIMITING OPERATING CONDITIONS - LIQUID

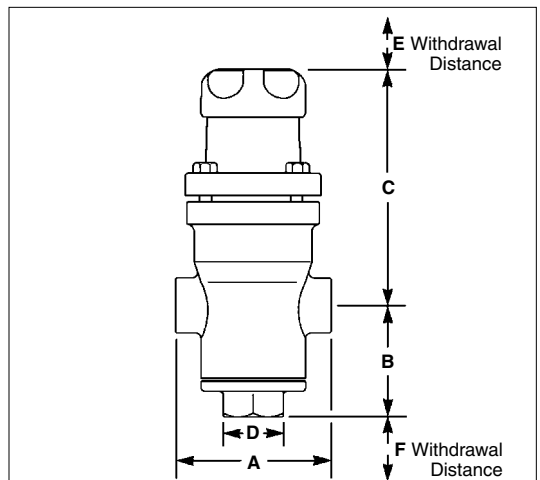
Max. Upstream Pressure	200 psig (14 barg)
Max. Downstream Pressure	115 psig (8.6 barg)
Max. Cold Hydraulic Test	550 psig (38 barg)



DOWNSTREAM PRESSURE RANGES

For the following downstream pressures, three color-coded springs are available. Where the pressures overlap, use the lowest pressure spring to give the downstream pressure required:

Grey: 5 to 25 psi 0.35 to 1.7 barg	Green: 20 to 58 psi 1.4 to 4.0 barg	Orange: 51 to 125 psi 3.5 to 8.6 barg
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DIMENSIONS (NOMINAL) IN INCHES AND MILLIMETERS

Size	A	B	C	D	E	F	WEIGHT
1/2"	3.26	2.44	5.11	1.26	.98	1.57	4.41 lb
	83	62	130	32	25	40	2.0 kg
3/4"	3.78	2.44	5.11	1.26	.98	1.57	4.41 lb
	96	62	130	32	25	40	2.0 kg
1"	4.25	2.44	5.11	1.26	.98	1.57	4.41 lb
	108	62	130	32	25	40	2.0 kg

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

In the interests of development and improvement of the product, we reserve the right to change the specification.

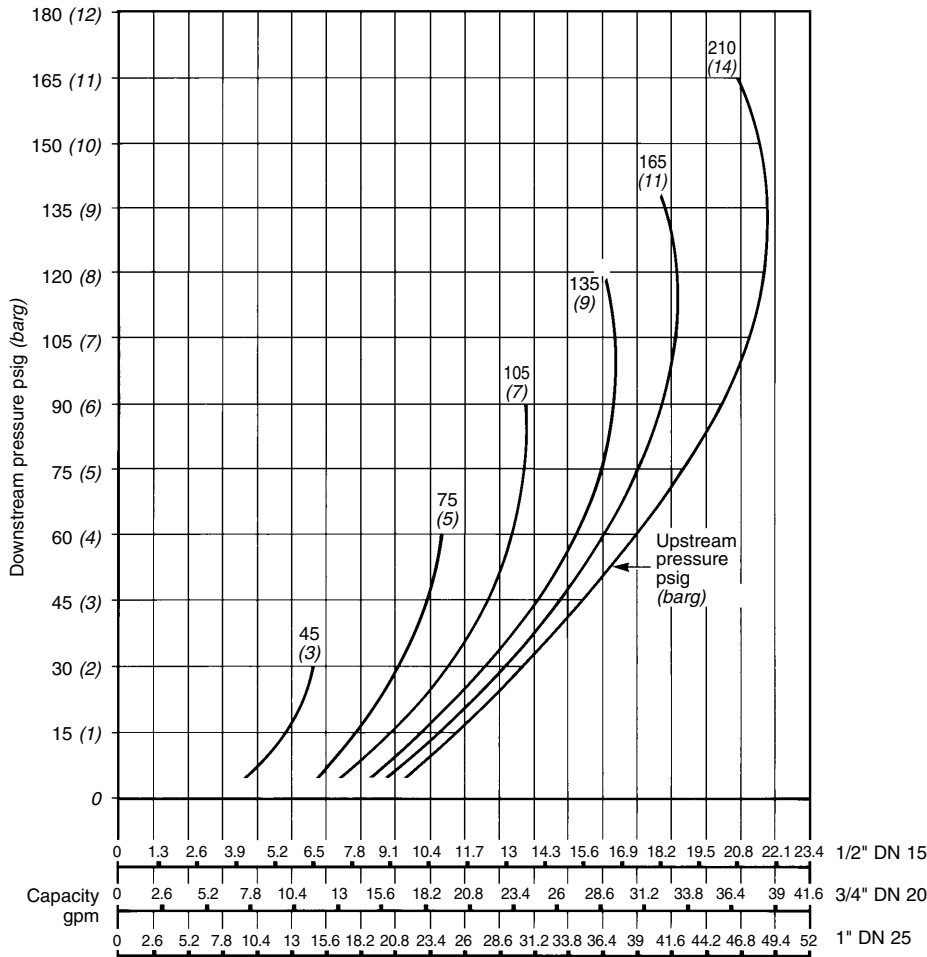
TI-3-103-US 07.97

Direct Operated Pressure Regulator LRV2

CAPACITIES - Water capacities in gpm

Full lift capacities for safety valve sizing are shown below:

Cv_s (Kv_s)	1/2" (DN15)	3/4" (DN20)	1" (DN25)
	2.4 (2.1)	4.2 (3.6)	5.0 (4.3)



HOW TO USE THE CHART

The curved lines labelled 45, 70, 105, etc., represent upstream pressures. Downstream pressure is read along the vertical line on the left hand side of the chart.

Example:

Required, a reducing valve to pass water at the rate of 11.7 gpm reducing from 105 to 60 psi. From the downstream pressure of 60 psi on the left hand side of the chart extend out horizontally until the line meets the curved 105 upstream line. At the point read vertically downwards where it will be seen that a 1/2" valve (with a 51-125 psi spring) will be required.

HOW TO ORDER

1-1/2" Spirax Sarco LRV2 Pressure Reducing Valve with Gunmetal body and fitted with orange spring (51 to 125 psi).

INSTALLATION

The valve should be installed in a horizontal pipeline with the direction of flow as indicated by the arrow on the valve body. Full installation and maintenance instructions are supplied with the product.

SPARE PARTS

The diagram shows the internal components of the pressure regulator, including the pressure adjustment spring, bellows set, valve and seat assembly, and gasket set.

Spare Parts

The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

AVAILABLE SPARE		
* Pressure Adjustment Spring		
Grey	0.35/1.7 bar g	D, Q
Green	1.4/4.0 bar g	D, Q
Orange	3.5/8.6 bar g	D, Q
* Bellows Assembly - Phosphor Bronze	E, F	
* Spring Housing Cap Screws (set of 4)	G	
* Piston and Seat Assembly	F, K, R, L, M, V, U, T, S	
* Gasket Set	F, M, S	
* Screen	T	

* Common to all sizes

How to order

Always order spares by using the description given in the column headed Available Spare and stating the size, type and pressure range of the reducing valve.
Example: Pressure Adjustment Spring, pressure range 51-125 psi (orange) for 1/2" Spirax Sarco Type LRV2 Reducing Valve.

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