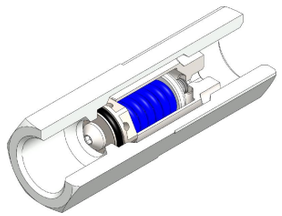
SQV0.G38 VALVE SERIES

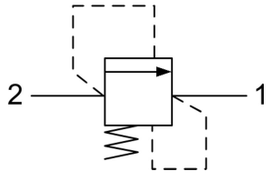
GAS Cartridge - 420 bar

Direct acting - In line sequence valve

Steel housing



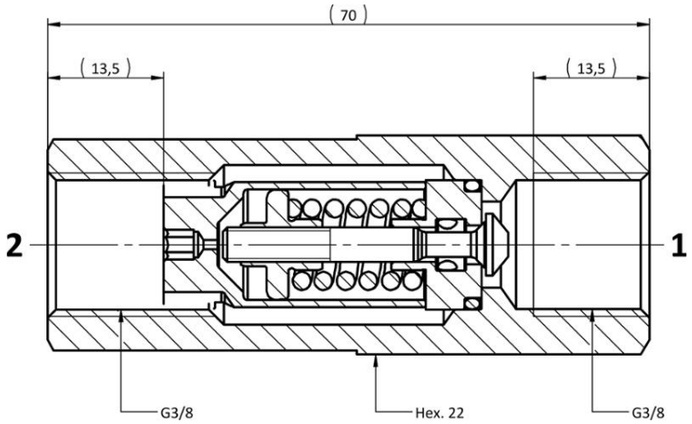
HYDRAULIC SYMBOL



DESCRIPTION

Direct acting in-line sequence valve with steel housing. The SQV combines in one easy-to-install in line valve the typical function of shock relief valve, side-in nose-exhaust. In the pressure relief function it provides very low pressure rise thanks to the smart deflector design.
When the pressure at the high pressure inlet (2) reaches the valve setting, the valve starts to open to tank (1). The pressure rise is very low thanks to the smart deflector design. Flow passage in the opposite direction (1 to 2) is blocked.
High precision machining guarantees quick response to load changes, limited hysteresis and reduced leakage.

CROSS SECTION



TECHNICAL DATA

MAXIMUM OPERATING PRESSURE	420 bar
MAXIMUM FLOW	60 l/min
MAXIMUM INTERNAL LEAKAGE	1 cm^3 / min to 80 % of nominal set point
PRESSURE SETTING ESTABLISHED	@10 l/min
RESEAT PRESSURE	nominal 90% of cracking pressure
EXTERNAL COMPONENT TREATMENT	Zn/Fe - standard (96h) Zn/Ni (720h) (Upon customer request)
O-RING TEMPERATURE RANGE	-30° C to 110° C (standard sealing NBR - BUNA - N) -35° C to 140° C (HNBR - Upon customer request) -23° C to 225° C (FKM - Upon customer request)
OIL TEMPERATURE RANGE	-30° C to 110° C
FLUIDS	Mineral - based or synthetics with lubricating properties
VISCOSITIES	7,4 to 420 cSt
FILTRATION	20/18/15 ISO 4406 (maximum filtration admitted)
ORIENTATION	No restrictions
TECH. SPEC. FOR CHARACTERIZATION	see page 811
OIL TESTING CONDITIONS	ISO VG 46 cSt
WEIGHT	0,148 kg

ORDERING CODE

S	Q	V	0	·	G	3	8	·	0	*	·	*	*	*

VALVE BASIC CODE

SIZE
GAS 3/8

MARKING
0 = Standard factory marking.
Customized marking can be done upon request.

SPRING RANGE

PRESSURE SETTING IN [BAR]
Standard setting are multiple of 5 bars.

Spring model code	Setting pressure range (bar)
N	20-70
B	71-130
G	131-210
V	211-280
W	281-350
R	351-420

Specifications may change without notice.

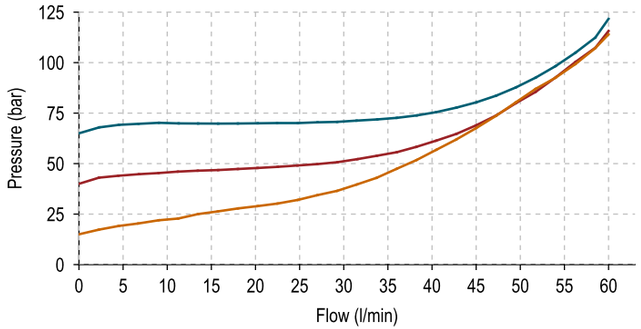
SQVO.G38 SPRINGS' GRAPHS

The performance chart illustrates flow handling capacity at maximum setting for each spring range option.
p/Q curves are recorded at TOil = 40°C and 46 cSt.

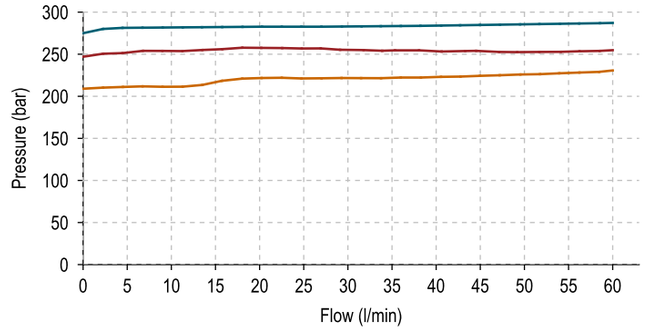
LEGEND

- Maximum setting pressure range
- Medium setting pressure range
- Minimum setting pressure range

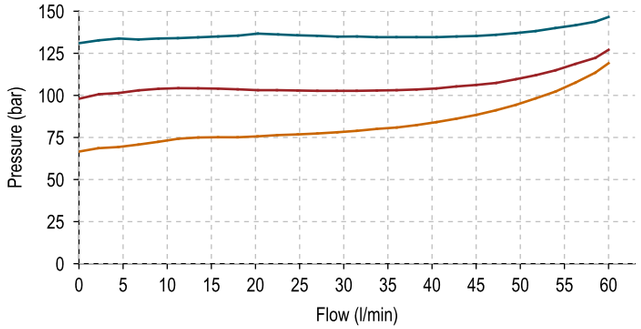
SPRING N



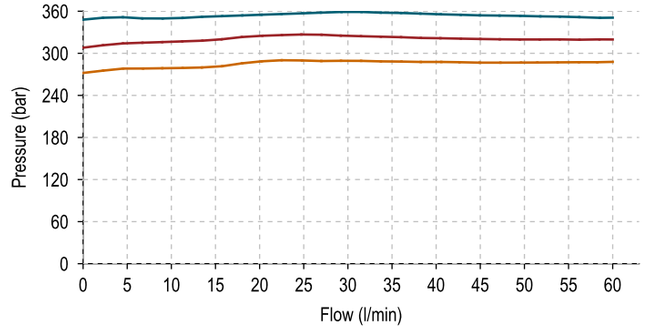
SPRING V



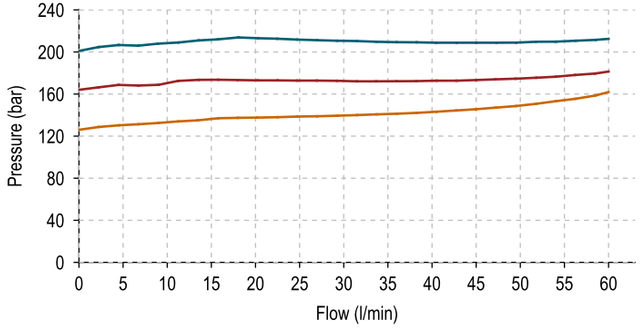
SPRING B



SPRING W



SPRING G



SPRING R