

DATA SHEET

HIGH-PRESSURE RELIEF VALVE



Standard Model: **7190**



FEATURES

- Functions as a secondary pressure relief valve to either an unloader or regulator for optimum system overpressure protection.
- By-passes unused flow when set relief pressure is reached to avoid excessive pressure on the pump.
- Lightweight, compact design conveniently mounts directly into the discharge line.

SPECIFICATIONS

	U.S. Measure	Metric Measure
Flow Range	0-6.5 gpm	0-25 lpm
Pressure Range	400-5000 psi	28-345 bar
Maximum Relief Setting	5500 psi	379 bar
Maximum Temperature	140° F	60° C
Inlet Port	3/8" BSP(F)	3/8" BSP(F)
Discharge Port	3/8" BSP(F)	3/8" BSP(F)
By-Pass Port	3/8" BSP(F)	3/8" BSP(F)
Weight	16.8 oz	0.47 kg
Dimensions	5.22 x 1.97 x 1.06"	132.5 x 50 x 27 mm

SELECTION

Select a relief valve to meet or exceed the flow and pressure requirements of the system.

INSTALLATION

The relief valve should be mounted in the discharge line **before any other accessories in the system** to provide optimum protection to the pump. The by-pass from the relief valve may be returned to the reservoir or drain to the floor. By-pass returned to the inlet of the pump should be done with caution to avoid pressure spikes or excessive heat build-up from recirculating liquids.

OPERATION

The hex adjustment cap is located at the top of the relief valve, the inlet and discharge ports are located on the sides and the by-pass port is located at the bottom. Using a 27mm wrench, the pressure setting may be increased by turning clockwise or decreased by turning counterclockwise.

The relief valve should be set in small increments. Check your pressure gauge following each adjustment. It is recommended to set your primary and secondary relief valve simultaneously in small increments. The final adjustment for the secondary relief valve should be set to relieve at approximately 200 psi above the system working pressure.

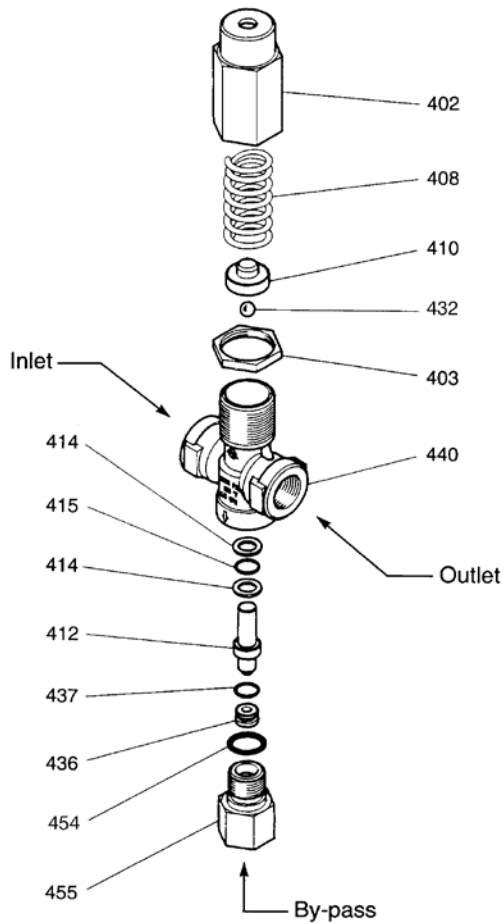
NOTE: The Relief Valve is a secondary safety device. It does not replace a pressure regulator or unloader.



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E-mail : info@pijttersen.nl / info@catpumps.nl
Internet: www.pijttersen.nl / www.catpumps.nl

EXPLODED VIEW



PARTS LIST

ITEM	DESCRIPTION	P/N	MATL	QTY
402	Cap, Adjusting	33404	BB	1
403	Nut, Lock	33327	BB	1
408	Spring	33329	STZP	1
410	Retainer, Spring	33408	BB	1
412	Piston	33409	S	1
414	Backup-Ring, Piston	—	PTFE	2
415	O-Ring, Piston	—	NBR	1
432	Ball, Guide 1/4"	33825	SS	1
436	Seat	33383	S	1
437	O-Ring, Seat	—	FPM	1
440	Valve Body	—	BB	1
454	O-Ring, Fitting	—	NBR	1
455	Fitting, By-pass	33405	BB	1
468	<i>Kit, O-Ring (Incls: 414,415,437,454)</i>	33435	NBR	1

Italics are optional items.

Material Codes (Not Part of Part No.):

BB=Brass FPM=Fluorocarbon NBR=Medium Nitrile (Buna-N)

PTFE=Pure Polytetrafluoroethylene S=304SS SS=316SS

STZP=Steel/Zinc Plated

TROUBLESHOOTING

Valve chatters	<ul style="list-style-type: none"> Valve is improperly set. Repeat adjustment procedure.
Valve continually by-passes	<ul style="list-style-type: none"> Seat or piston valve is worn. Replace as needed.
Leaking out the top of valve	<ul style="list-style-type: none"> O-Ring on piston worn or cut. Replace as needed.



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The Pumps with Nine Lives

Pijtersen B.V.
Beneluxweg 33
9636 HV Zuidbroek
Tel.: +31(0)50-8200963

KvK 01013855
BIC RABONL2U
BTW NL002166811B01
IBAN NL24 RABO 0353 2970 97

www.pijtersen.nl - info@pijtersen.nl | www.catpumps.nl - info@catpumps.nl

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