

J48KH

High Pressure Relief Valve
Nominal Diameter ¾" & 1"



This product is discontinued!

Applications

- Industrial
- Commercial

Brief information

Operation: The J48KH is a special version of the highly versatile and well proven J48K pressure relief valve. The J48KH has a higher inlet pressure rating and incorporates the spring adjustment mechanism of the high pressure J48 regulator.

Application: The J48KH high pressure relief valve guards against excess pressure. The valve is fully automatic in operation and resets when the pressure falls below the pre-set value.

Control: A comprehensive range of springs is available. The relief pressure can be easily and accurately adjusted by turning the spring adjusting stem located under the top cap. The setting is maintained by a lock nut. The design of this mechanism provides virtually frictionless adjustment and eliminates "spring wind up".

The complete spring adjustment mechanism can be removed easily for maintenance and spring changes. If required the units can be supplied factory set with a security seal at extra cost.

Technical Data: Maximum Relief Pressure: 770mb (11 PSIG)

Servicing: The J48KH has been designed for ease of access, inspection and servicing of all internal components. A standard soft spares kit is available for both sizes.

Main features

- Sizes: J48KH - ¾" and 1"
- Temperature range -20°C to +70°C
- Threaded connections to BS EN 10226 (ISO 7) or NPT (other threads may be available upon request)
- Spring loaded
- Can be mounted in any orientation (may need to be re-set after installation).

¾" and 1"

reference number SK4806-05

J48KH: High Pressure Relief Valve

Relief Capacities

RELIEF VALVE SIZE: ¾"

RANGE (mbar)	SPRING No.	SETTING (mbar)	PRESSURE BUILD UP ABOVE RELIEF SETTING (mbar)									
			7	17	35	50	70	105	140	210	350	490
70 - 210	J4806-076 Lt Green / Gold	70	9	32	76	85	94	108	119	138	181	218
		140	16	46	101	108	119	127	138	158	196	239
		210	19	53	120	131	138	145	156	177	218	259
210 - 350	J4808-063 Grey	210	27	50	106	124	138	149	159	170	223	262
		280	28	53	124	145	152	166	182	204	246	281
		350	35	57	149	159	172	189	204	219	260	299
350 - 770	J4806-078 Lt Green / Pink	350	32	50	90	150	166	181	196	223	258	304
		560	35	53	205	246	248	251	257	281	324	-
		770	39	60	281	288	294	303	326	345	-	-

RELIEF VALVE SIZE: 1"

RANGE (mbar)	SPRING No.	SETTING (mbar)	PRESSURE BUILD UP ABOVE RELIEF SETTING (mbar)									
			7	17	35	50	70	105	140	210	350	490
70 - 210	J4806-076 Lt Green / Gold	70	18	50	92	110	124	138	154	191	242	294
		140	21	51	101	124	143	166	182	214	271	320
		210	25	58	118	155	167	195	217	244	296	345
210 - 350	J4808-063 Grey	210	25	50	87	103	150	198	175	245	285	334
		280	35	53	99	111	161	204	229	257	306	375
		350	37	56	107	130	186	229	250	281	331	384
350 - 770	J4806-078 Lt Green / Pink	350	25	37	81	99	136	198	248	275	331	378
		560	50	62	93	130	180	254	297	344	396	-
		770	74	87	114	142	190	277	368	423	-	-

J48KH: Pressure Relief Valve

The relief valve will begin to open and relieve when the inlet pressure rises to the setting pressure. In the tables above the inlet pressure is increased above the listed setting pressure and the resultant relief flow is recorded.

The capacities on the previous page are given in SCMH of natural gas (0.64 SG). For other gases multiply the capacity by:

$$\sqrt{\frac{0.64}{\text{gas sg}}}$$

GAS	SG
Air	1.00
Towns Gas	0.50
Propane	1.53
Propane / Air	1.20

J48KH: Pressure Relief Valve

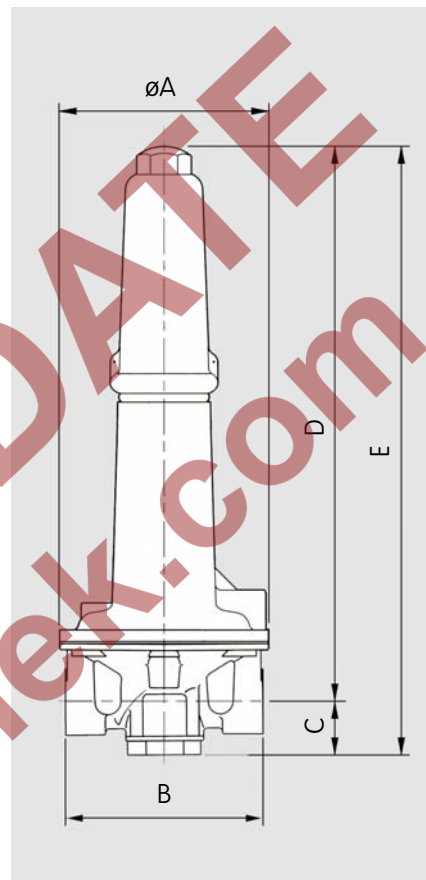
Dimensions and Weights

A	B	C	D	E	Weight (Kg)
134	125	34	356	390	2.66

Material Specifications

A summary of the material specification for the J48KH is given for reference. All material has been selected to provide maximum durability and reliability in service.

Components	Specification
Body, cover, bottom plug, valve spacer, valve spindle guide, diaphragm spacer and valve disc clamping washer.	Aluminium Alloy
Diaphragm plate, bottom spring holder, valve spindle, spring adjusting screw, spring adjusting screw locknut and top spring holder.	Mild steel
Main diaphragm, secondary diaphragm, valve disc and "O" rings.	Nitrile (Buna)
Springs	Carbon Steel



Quality:

Elster Jeavons is committed to a programme of continuous quality enhancement. All equipment designed and manufactured by the Elster-Instromet group benefits from the group's quality assurance standards which are approved to EN ISO9001:2008.

Loading Springs

All springs are colour coded for ease of identification.

Spring Range		Part Number	Colour Code
mbar	"wg		
70 - 210	1 - 3	J4806-076	Light Green / Gold
210 - 350	3 - 5	J4808-063	Grey
350 - 770	5 - 11	J4806-078	Light Green / Pink

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