

Vent Valve

QRA Series

0.5 to 150 PSIG (10 bar)

Vent valves are used to limit the amount of compressed fluid pressure in a system, so that it doesn't build up above a pre-set level and cause damage to machinery or people.

This QRA series was designed to be reasonably priced, it has a wide range of applications across a practical set pressure range all with a compact design.



Applications

- System overpressure protection
- Medical equipment
- Measuring & dispensing pumps
- Process control instruments
- R & D pilot plants
- Storage tanks
- Freon® recovery systems
- Refrigeration & heating equipment
- Communications equipment
- Vacuum pump safety

QUAD SEAL

Features

- Set Pressure Tolerance: $\pm 5\%$

(*Set pressure on initial crack may be higher than set pressure tolerance due to inherent characteristics of seals)

- Reseat to 95% of set pressure above 13 psi, reseat to 85% of set pressure up to 13 psi

- Zero leakage
- Tamper-proof adjustment
- 100% seat leakage tested
- Compact design

Specifications

Size Range:	1/8" – 1" (DN4 – DN25)
Operating Pressure Range:	0 – 14 bar (vacuum – 200 psig)
Set Pressure Range:	0.03 – 10 bar (0.5 – 150 psig)
Temperature Range:	(-196°C to +205°C) (-320°F to +400°F) (Based on Quad-ring & body material, see "HOW TO ORDER")
Options Include:	<ul style="list-style-type: none"> ➢ Vent to atmosphere with deflector cap ➢ Inline relief (male x female)
Connection Type:	<ul style="list-style-type: none"> ➢ 1/8" MNPT to 1" MNPT, 1/8" FNPT to 1/4" FNPT ➢ BSPT Male/Female - on request

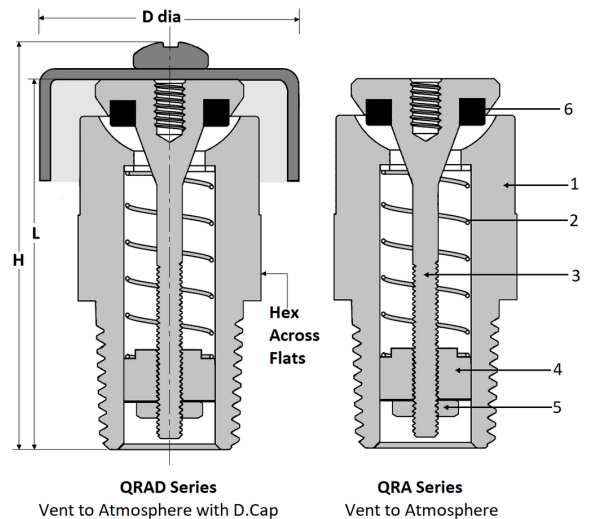
PED certifications and CE marking available for several models

Dimensions

Nominal Size	L (Inches)	H (Inches)	Hex	D Dia. Max. (Inches)
1/8"	0.98	1.14	1/2	0.63
1/4"	1.2	1.38	5/8	0.90
3/8"	1.25	1.43	3/4	1.21
1/2"	1.74	1.98	1	1.45
3/4"	2.07	2.31	1 1/8	1.45
1"	2.86	3.16	1 1/2	1.89

Part List

Part No.	Part Name	Material		
		Brass	Aluminium	316 Stainless Steel
1	Body	Brass	Aluminium	316 SS
2	Spring	302 SS	302 SS	302 SS
3	Stem	Brass	Aluminium	316 SS
4	Spring Retainer	Brass	Aluminium	316 SS
5	Nut	Brass	Aluminium	316 SS
6	Quad-ring Seal	As Specified, see "HOW TO ORDER" information		



*Proper filtration is recommended to prevent damage to sealing surfaces.



HOW TO ORDER

Find the suitable codes from the tables below **Series, Body Material, Connection Size, Quad-ring Material** and then specify the set pressure in PSIG respectively.

Ex: If you need 3/8" Male NPT Brass relief valve with Deflector cap/Dust cover, sets at 100 PSIG and the operating temperature range is -20°F to 400°F:

The ordering code is **QRAD -B- M3 -V-100** (Refer the "SELECTION GUIDE" below)

SELECTION GUIDE

Series	Body Material	Connection Size	Quad-Ring material	Set Pressure (0-150 PSIG)
QRAD	B	M3	V	100

Series	Code
Relief to Atmosphere	QRA
Relief to Atmosphere with Deflector Cap	QRAD
Inline Relief (Male x Female)	QRAI

Body Material	Code
Brass	B
Aluminium	A
316 SST	S1

Quad-Ring Material	Code
Viton (-20°F to 400°F) (-29°C to +204°C)	V
Buna-N (-40°F to 250°F) (-56°C to +275°C)	B
Neoprene (-40°F to 250°F) (-40°C to +149°C)	N
Ethylene Propylene - (-65°F to 300°F) (-54°C to +149°C)	EP
Silicone (-65°F to 400°F) (-54°C to +204°C)	S
Fluorosilicone (-20°F to 350°F) (-29°C to +220°C)	FS
Kalrez (-43°F to 420°F) (-42°C to +220°C)	KZ
Teflon (-320°F to 400°F) (-196°C to +205°C)	T

Connection Size	Code			
	Male NPT	Female NPT	Male BSPT	Female BSPT
1/8"	M1	F1	BM 1	BF 1
1/4"	M2	F2	BM 2	BF 2
3/8"	M3	-	BM 3	BF 3
1/2"	M4	-	BM 4	BF 4
3/4"	M5	-	BM 5	BF 5
1"	M5	-	BM 6	BF 6

Connection sizes in 1/8" increments
Ex: M2x 1/8" = 1/4"