

# QUICK EXHAUST VALVES

(For Pneumatic Application Only)



**QE-3-316**  
1/4"



**QE-5-316**  
1/2"



**QE-6-316**  
3/4"



**QE-7-316**    **QE-9-316**  
1"                      1 1/2"

## General Description

A Quick Exhaust Valve is a 3/2 valve with extra large exhaust orifice, designed to be fitted directly at a cylinder port connection. The main purpose of a Quick Exhaust Valve is to get extra fast movement of the cylinder rod or valve actuator.

## Functional Description

A quick Exhaust Valve is a three-ported valve with one inlet port, one cylinder port and a larger exhaust port.

When the inlet port is pressurized, the exhaust port is closed by the "Flapper" ("Shuttle" on QE-6-316) and the inlet port is connected to the cylinder port.

When pressure falls at the inlet of the Quick Exhaust Valve the cylinder port is automatically opened to the exhaust and the cylinder is rapidly depressurized.

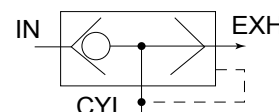
## Temperature range:

QE-3	
QE-3-316	-20°F (-29°C) to +200°F (+93°C)
QE-5-316	
QE-6-316	
Standard	-30°F (-34°C) to +250°F (+121°C)
Optional -EP*	-60°F (-51°F) to +300°F (+149°C)
QE-7-316	
QE-9-316	
Standard	-5°F (-15°C) to +194°F (+90°C)
Optional -44	-40°F (-40°C) to +194°F (+90°C)
Optional -T40**	-65°F (-54°C) TO +200°F (+93°C)

Seal material: \*Ethylene Propylene \*\*Fluorosilicone

Weights	lbs (kg)
QE-3	1.12 (0.53)
QE-3-316	0.81 (0.37)
QE-5-316	2.16 (0.98)
QE-6-316	2.44 (1.11)
QE-7-316	27.0 (12.2)
QE-9-316	26.6 (12.1)

## Flow Symbol



## Sizes / Connections / Product Numbers & Pressures / Materials / Flow

Size			PRODUCT NUMBER	PRESSURES	FLOW Cv		MATERIALS		
Inlet	Cyl	Exhaust			Inlet	Exhaust	Body	Seals	Fasteners
1/4" NPT	1/4" NPT	3/8" NPT	QE-3	5-150 psi (0.35 - 10 bar)	3.0	3.3	Electroless Nickel Plated Brass	FKM (Fluorocarbon) O rings CR (Neoprene) coated nylon flapper	316 Stainless Steel
1/4" NPT	1/4" NPT	3/8" NPT	QE-3-316	5-150 psi (0.35 - 10 bar)			Investment cast 316L Stainless Steel (conforms to NACE MR-01-75)		
1/2" NPT	1/2" NPT	3/4" NPT	QE-5-316	5-150 psi (0.35 - 10 bar)	3.8	8.8		FKM (Fluorocarbon) O rings CR (Neoprene) single lip seal	
3/4" NPT	3/4" NPT	1" NPT	QE-6-316	15-175 psi (1 - 12 bar)	4.6	13.6			
1" NPT	1½" NPT	1½" NPT	QE-7-316	5-175 psi (0.3 - 12 bar) Std & -44 5 to 125 psi (0.3 to 8.5 Bar) for -T40	20	52	316L Stainless Steel (conforms to NACE MR-01-75)	FKM (Fluorocarbon) O rings	
1½" NPT	1½" NPT	1½" NPT	QE-9-316	5-175 psi (0.3 - 12 bar) Std & -44 5 to 125 psi (0.3 to 8.5 Bar) for -T40	23	52			

For Dust Excluders and Vent Screens see page 3