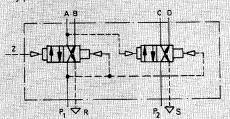


Single Pilot Valve,

Spring Return for Pneumatic Feed Unit

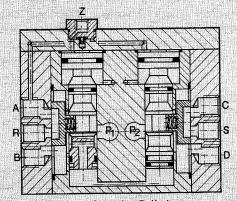
Type VL-8-3/8-B



This valve is used to control feed motion and alternate clamping on FESTO strip feed units.

Different feed and clamping pressures are possible by varying pressures to P₁ and P₂.

To achieve a high switching frequency, the length of the control line to connection Z should not exceed 6 feet / 2 meters.



P₁ = Supply to Clamping Cylinder P₂ = Supply to Feed Cylinder

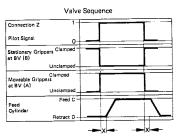
P₂ = Supply to Feed Cylinder D, C = Ports for Feed Cylinder

B, A = Ports for Clamping Cylinder

R, S = Exhaust Z = Pilot Line

The 2 x 4 way, 2 position directional control valve remains shifted while pilot pressure is applied at Z. The flow in the first four-way, two-position valve changes from $P_1 \rightarrow B$ to $P_1 \rightarrow A$. When the pressure in line A builds up to at least 50% of the pressure at P_1 , the second four-way, two-position valve will be shifted. The flow changes from $P_2 \rightarrow D$ to $P_2 \rightarrow C$. Similarly, the four-way, two-position directional control valves are returned by a differential piston area after pilot pressure at Z is removed. In this way the delay between shifting of the two 4 way, 2 position valves allows the clamping jaws to be reversed first, followed by extension or retraction of feed cylinders in the strip feeding unit.

Valve Movement



X = Feed Cylinder Delayed Action

Order Number		4802 VL-8-3/8-B
Medium		Compressed air (filtered, lubricated)
Mounting		Through-holes in housing
Connection	Working Ports	G 3/8 ISO
	Pilot Port	G 1/8 ISO
Orifice Size		0.35 in / 9 mm
C _V Factor (P → A)		1.80 C _V / 1800 I/min
Pressure Range*		30-150 psi / 2-10 bar
Min Pilot Pressure Range at 90 psi / 6 bar		45 psi / 3 bar
Response Time at 90 psi / 6 bar		75 ms
Design		Slide valve
Materials		Housing: Al, hard coat anodized. Seals: Buna N.
Weight		2.910 lb / 1.320 kg

^{* -4} to +176°F / -20 to +80°C

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation ComponentsComplete custom engineered solutions



Custom Control CabinetsComprehensive engineering support and on-site services



Complete SystemsShipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



ElectromechanicalElectromechanical actuators, motors, controllers & drives



PneumaticsPneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Festo North America

United States

Customer Resource Center

502 Earth City Expy., Suite 125 Earth City, MO 63045

For ordering assistance, or to find your nearest Festo Distributor, **Call:** 1.800.99.FESTO **Fax:** 1.800.96.FESTO

Email: customer.service@us.festo.com

For technical support,
Call: 1.866.GO.FESTO
Fax: 1.800.96.FESTO

Email: product.support@us.festo.com

Headquarters

Festo Corporation 395 Moreland Road P.O. Box 18023 Hauppauge, NY 11788 www.festo.com/us

Sales Offices

Appleton

N. 922 Tower View Drive, Suite N Greenville, WI 54942

Boston

120 Presidential Way, Suite 330 Woburn, MA 01801

Chicago

1441 East Business Center Drive Mt. Prospect, IL 60056

Dallas

1825 Lakeway Drive, Suite 600 Lewisville, TX 75057

Detroit - Automotive Engineering Center 2601 Cambridge Court, Suite 320 Auburn Hills, MI 48326

New York

395 Moreland Road Hauppauge, NY 11788

Silicon Valley

4935 Southfront Road, Suite F Livermore, CA 94550

Design and Manufacturing Operations



East: 395 Moreland Road, Hauppauge, NY 11788



Central: 1441 East Business Center Drive, Mt. Prospect, IL 60056



West: 4935 Southfront Road, Suite F, Livermore, CA 94550

Mexico

Headquarters

Festo Pneumatic, S.A.

Av. Ceylán 3, Col. Tequesquinahuac
54020 Tlalnepantla, Edo. de México
Call: 011 52 [55] 53 21 66 00

Fax: 011 52 [55] 53 21 66 65

Email: festo.mexico@mx.festo.com

www.festo.com/mx



Canada

Headquarters

Festo Inc. 5300 Explorer Drive

Mississauga, Ontario L4W 5G4
Call: 1.905.624.9000

Fax: 1.905.624.9000 Email: info.ca@ca.festo.com

www.festo.com/ca



Festo Worldwide

Argentina Australia Australia Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela