FIP TRAINING



FIP range:

1)Pneumatic quarter turn (0-90°)

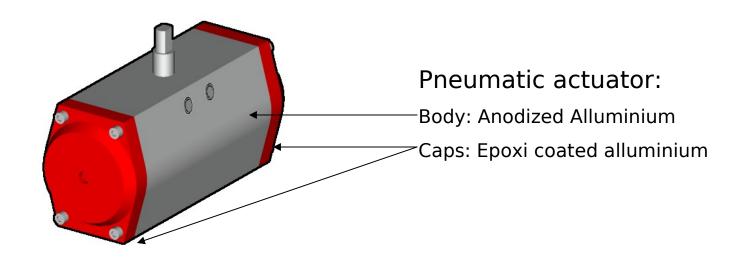
2)Electric quarter turn (0-90°....)

3)Pneumatic linear

4)Electric linear



1)Pneumatic quarter turn (0-90°)

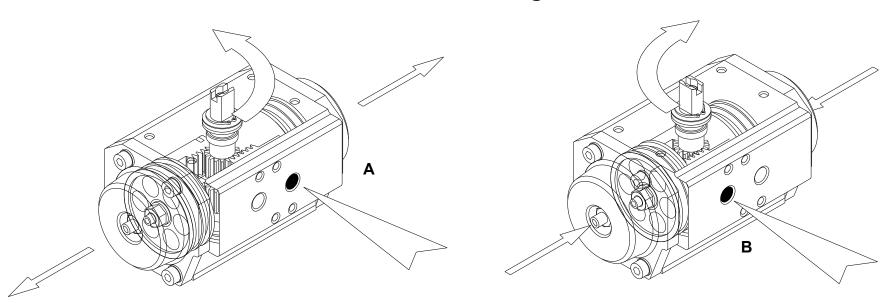


Two operating principle:

- 1) Double acting
- 2) Single acting



Double acting

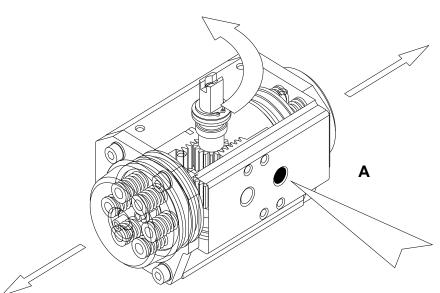


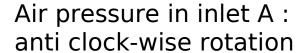
Air pressure in inlet A: anti clock-wise rotation

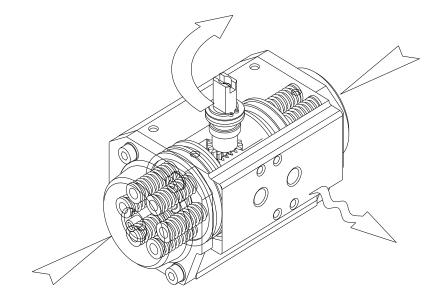
Air pressure in inlet B : clock-wise rotation



Single acting







No air pressure: clockwise rotation (spring return)













NAME FK/CP	VK/CP	VKD/CP	TK/CP	FE/CP		
SIZE 315mm	16-63 mm	75-110mm	n 16-63 mm	50-22	5mm	50-
FUNCTION NC/NO/DA	NC/NO/DA	NC/NO/DA	A SA/DA	NC/NO/	DΑ	



PNEUMATIC VALVE ACCESSORIES

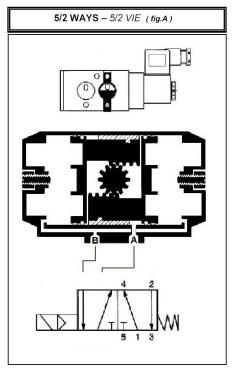


- 1 Optical position indicator
- 2 Pilot valve 3-5/2 ways for single acting and double acting actuators
- 3 Microswitch box mechanical or inductive
- 4 Positioner 4-20 mA

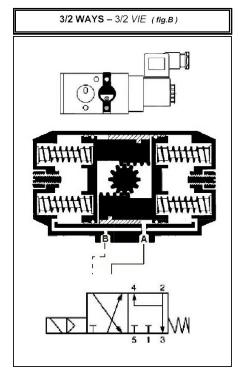


Pilot valve 3-5/2 ways for single acting and double acting actuators





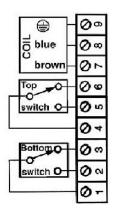




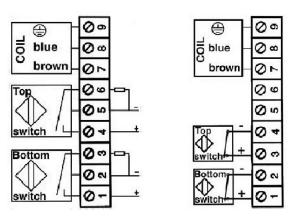


Microswitch box mechanical or inductive





Electro mechanical wiring



Inductive wiring 2 or 3 wires



2)Electric quarter turn (0-90°....)



Plastic cover

Standard:

Manual override

Optical indiction

2 auxiliary limit switches

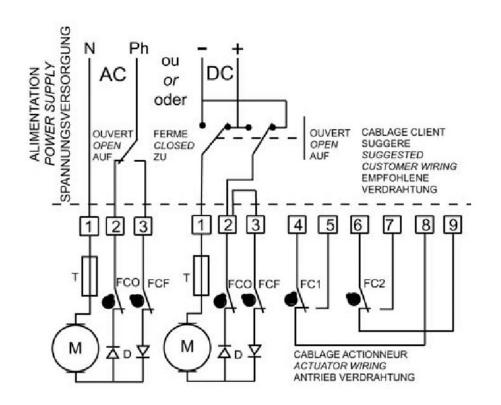
Availble voltages: 12-24 VDC // 12-24-115-230VAC

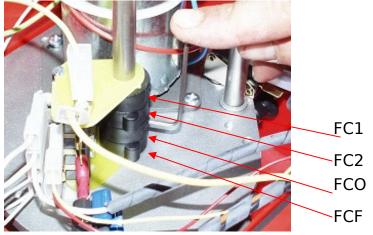
Duty cycle: 30% or 50%

Working time: from 4 to 65 seconds (more on request)

Enclosure: IP 65 (IP67)







FC1 Auxiliary cam which gives the opening signal

FC2 Auxiliary cam which gives the closing signal

FCO Cam which gives the opening impulse

FCF Cam which gives the closing impulse













NAME	VK/CE	VKD/CE	TK/CE	FE/CE	FK/CE	
SIZE	16-63 mm	75-110mm	16-63 n	nm 50-22	25mm 50-315mm	
FUNCTION	ON/OFF	ON/OFF	ON/OFF	ON/OF	ON/OFF	



Automatic valves ELECTRIC VALVE ACCESSORIES



1 Heater resistor



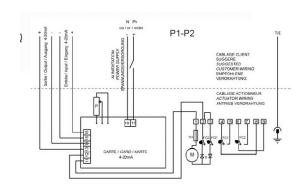
4 Safe battery



2 Potentiometer



5 3rd position (TK)



3 Positioner 4 -20 mA

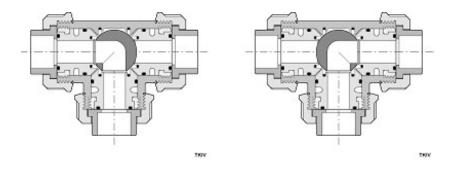






Automatic valves CONFIGURATION TK / CP-CE L BORE

Configuration 1 (STANDARD)

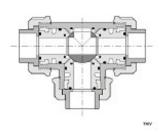


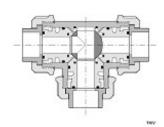


Automatic valves CONFIGURATION TK / CP-CE T BORE

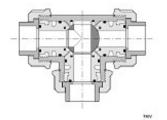
Configuration 1

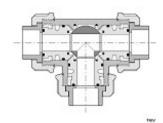
(STANDARD)



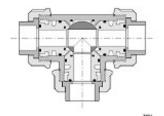


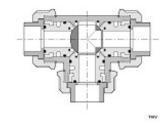
Configuration 2



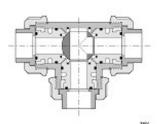


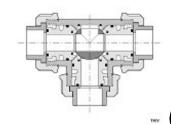
Configuration 3





Configuration 4







TK ACTUATION COMPONENTS



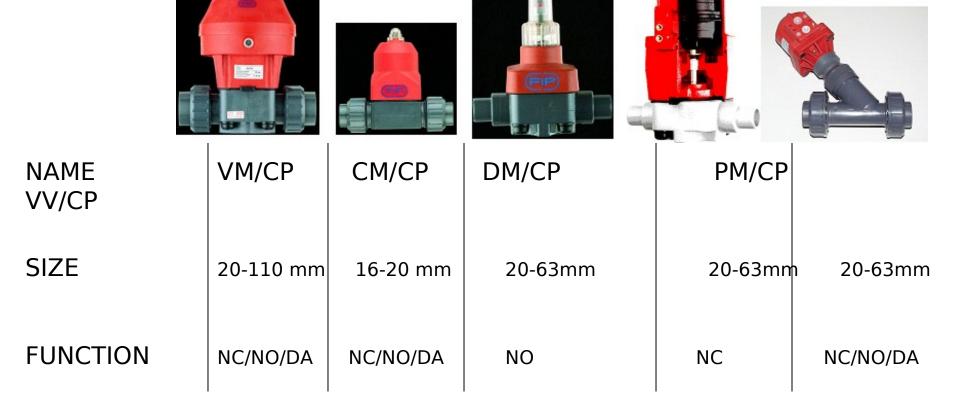
•For direct actuation: Stainless steel coupling

 Adaptation kit for actuators F05 to be mounted on valves TK D40-50-63





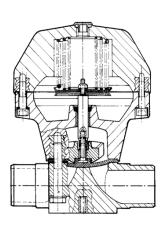
3)Pneumatic linear





VM/NC COMPONENTS/CHARACTERISTICS







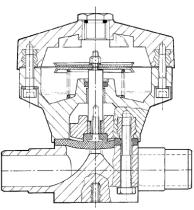
Characteristics

- High KV factor
- Possible Mounting of Accessories on the Valve already Installed
- Easy Replacement of the Valve Diaphragm
- Metallic Reinforcements Included in the Top of the Actuator
- All Bodies DN 15÷50 Aligned at the Same Pipe-Center-Line by Means of Only one Plate



VM/NO COMPONENTS/CHARACTERISTICS







Characteristics

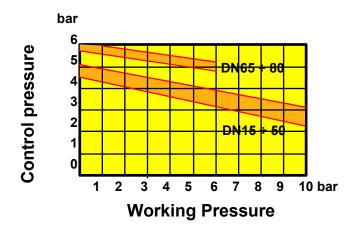
- High KV
- Possible Mounting of Accessories on the Valve already Installed
- Easy Replacement of the Valve Diaphragm
- Metallic Reinforcements Included in the Top of the Actuator
- The Version N.O. Can Also Operate As Double Acting Valve



CONTROL/WORKING PRESSURE

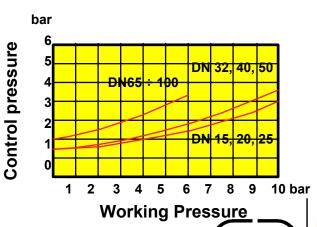


FIP VM/NC



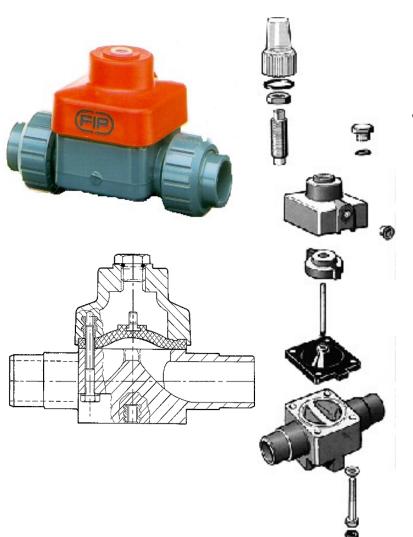


FIP VM/NO



FORMATURA INIEZIONE POLIMERI

DM/NO COMPONENTS/CHARACTERISTICS



Characteristics

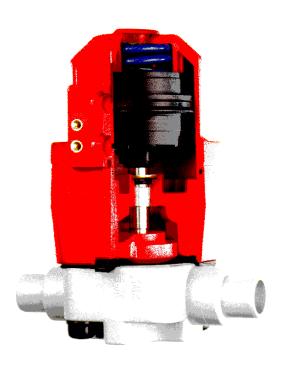
- Simple and Reliable Technology at a Low Price
- Standard Provided with Epdm Reinforced Diaphragm

Accessories

- Stroke Limiter Plus Optical Positio Indicator
- Pilot Valve



PM/NC COMPONENTS/CHARACTERISTICS

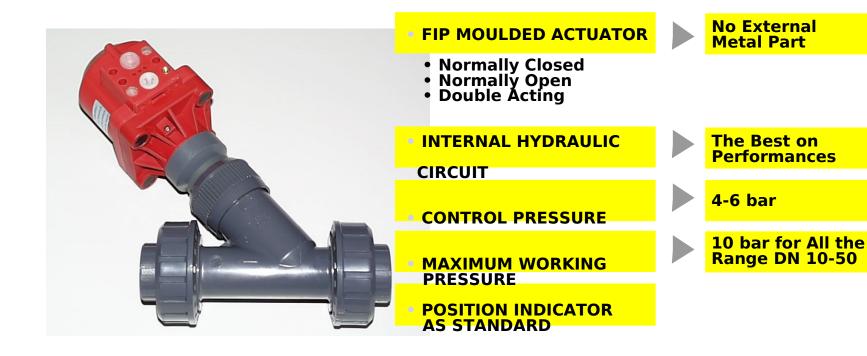


Characteristics

- Piston actuators
 More compact
 PN8 DN15-25
 PN6 DN32-40
 PN4 DN50
- Standard Provided with EPDM or FPM Reinforced Diaphragm
- Lower price (endurance)



PNEUMATICALLY ACTUATED ANGLE-SEAT VALVE



APPLICATION FIELDS:

See Solenoid Valves and Diaphragm Valves, In fact They Are Often Used Together with Solenoid Valves in Dosing Plants and Instead of Diaphragm Valves When the Fluid is Clean and not Viscous



ACCESSORIES



- 1 Stroke Limiter
- 2 Stroke Limiter with Optical Position Indicator
- 3 Stroke Limiter with Position Indicator and Emergency Manual Override
- 4 Optical Position Indicator
- 5 Electromechanical Position Indicator (1 Microswitch)
- 6 Electromechanical Position Indicator (2 Microswitches) for VM
- 7 Electromechanical Position Indicator (2 Microswitches) for CM
- 6-7 alternative: Inductive Position Indicator
- 8 Pneumatic or Electropneumatic Positioner
- 9 Direct or Battery Mounted Pilot Valve



4)Electric linear



S.11-S.21

S.13-S.23

SIZE

NAME

16-20 mm

16-20 mm

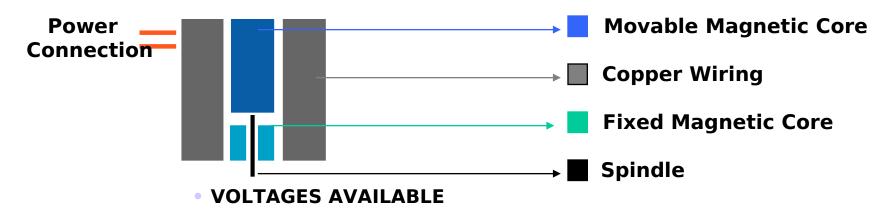
FUNCTION

NC

NC/NO/MX/DT



THE SOLENOID: OPERATING PRINCIPLE



A.C.: 24 - 48 - 110 - 220 - 240 - 250 at 50/60 Hz

D.C.: 12 - 24 - 48 - 110

NOTE: When Changing the Voltage of a Valve, Always Change Both
the Solenoid and the Connector.

- DUTY: 100% ED Continuous Working
- ENVIRONMENT PROTECTION: IP 65 (NEMA 4X)
 Totally Protected Against Dust and Water Jet
- MANUAL OVERRIDE AS STANDARD



S.1.	ND 2 - 4 - 6 - 8	lower overall dimensions
S.2.	ND 8 - 10 - 15	larger overall dimensions

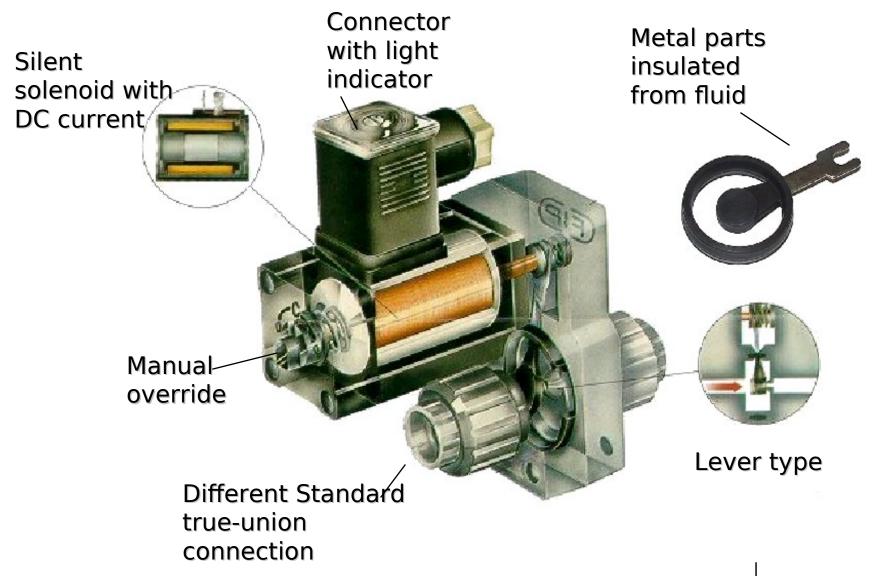
Body material: PVC On request C-PVC

Seals: EPDM or FPM

Connections:

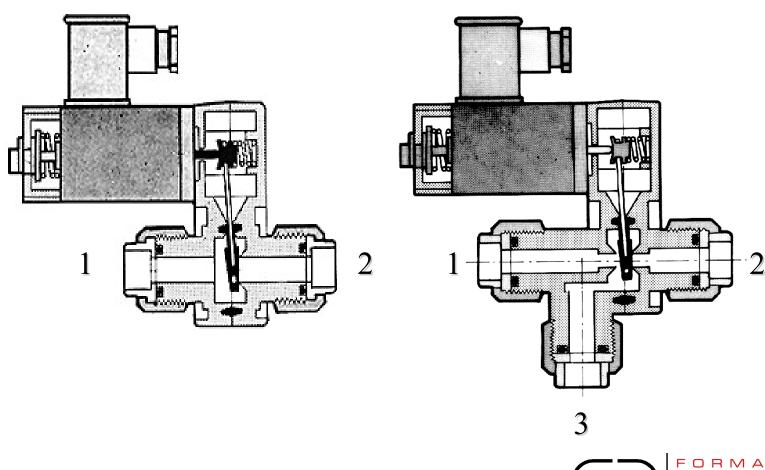
Type	DN		d		R	
	mm	ISO	BS	ASTM	BSP	NPT
		10	1/4"	1/4"	1/4"	1/4"
S.1.	2-4-6-8	12	3/8"	3/8"	3/8"	3/8"
		16				
		16	3/8"	3/8"	3/8"	3/8"
S.2.	8-10-15	20	1/2"	1/2"	1/2"	1/2"







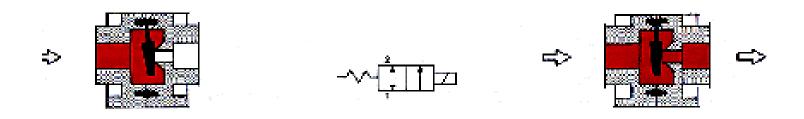
2/2 AND 3/2 WAYS SOLENOID VALVE





CONTROL FUNCTIONS (2/2 WAYS)

2/2 Normally Closed



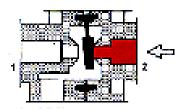
De-Energised Solenoid

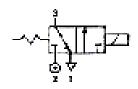
Energised Solenoid



CONTROL FUNCTIONS (3/2 WAY)

3/2 Normally Closed



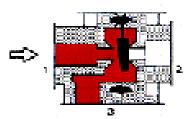




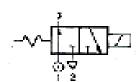
De-Energised Solenoid

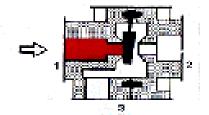
Energised Solenoid

3/2 Normally Open







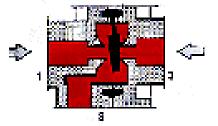


Energised Solenoid

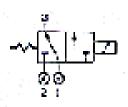


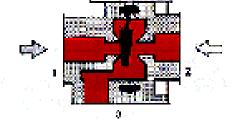
CONTROL FUNCTIONS (3/2 WAYS)

3/2 Mixer



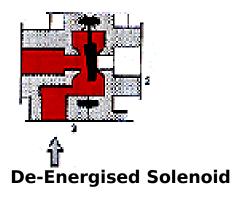
De-Energised Solenoid

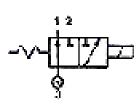


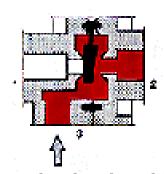


Energised Solenoid

3/2 Diverter







Energised Solenoid



THE S1/S2 NAMES

