

# Inline valves for the pneumatic system XF-Range V60-63



- Complete product range for the standard pneumatic system
- Single valves for standard applications
- Manifold systems for simple assembly
- Highly successful sealing system for outstanding reliability

# FOR ALL CONTROL APPLICATIONS



## Basic requirements for pneumatic valves

Complete product range

- A variety of functions
- Several sizes
- Application-based pilot valves

Great technical capability

- High flow rate
- Low electric power input
- Minimal size

**You demand that the control technology  
provides you with ...**

Long life

- Extensive switching cycles
- Maintenance-free

Active market processing and  
continuous program development

- Close OEM connection
- World-wide marketing through  
Norgren Market-companies



# Pneumatic Inline valves



## For the variety of applications

### Single valves

- Different types of operation, electric and pneumatic
- Optimized valve sizes for maximum flow with adapted width
- Highly successful sealing system

### Manifold system

- Common pipes for pressure supply and exhaust air
- Separation into several pressure ranges is possible
- External air supply and collected pilot air exhaust as an option

### Special products and accessories

- Namur interface
- Push-In-Fittings direct in the valve body
- Different connectors and fittings



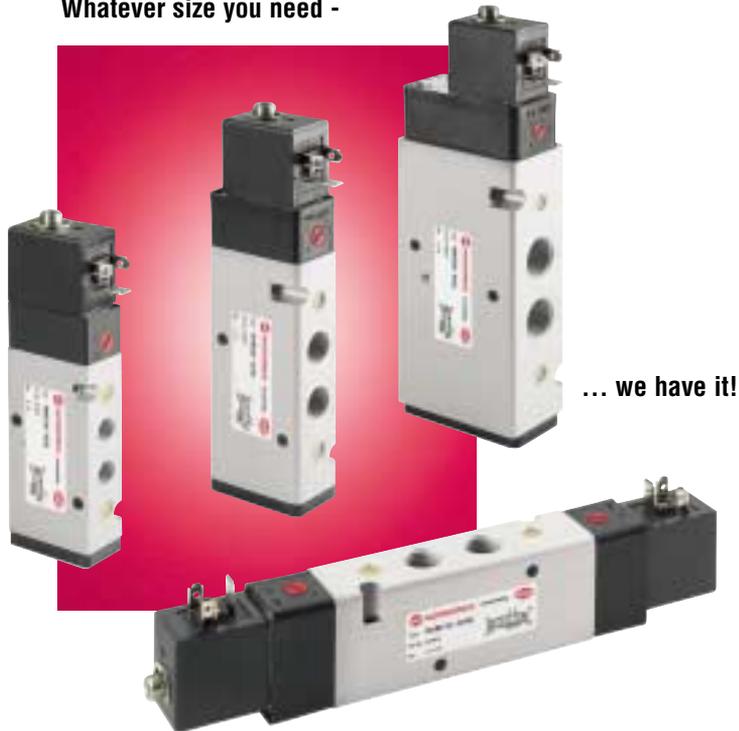
**...Norgren-Herion -  
meeting your needs!**

# The valve family - innovation and competence

## What you can expect... the valves

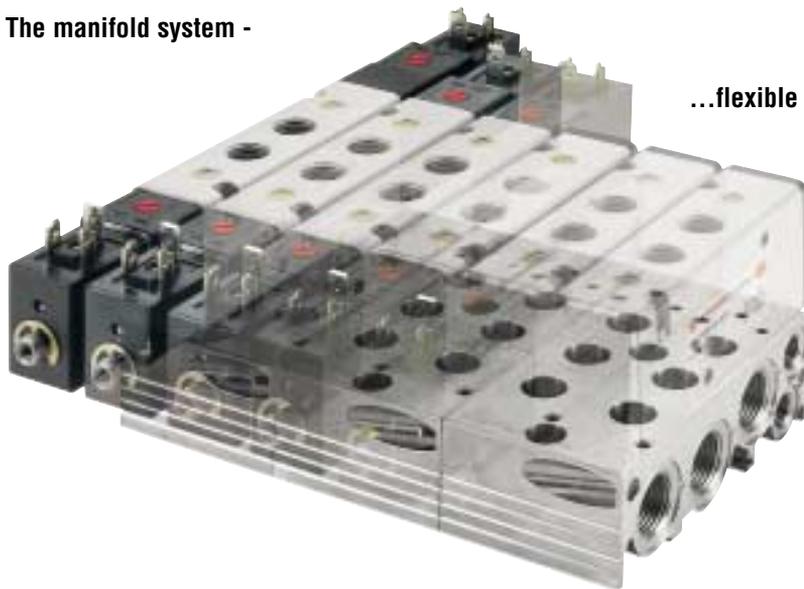
- All valve functions for 3/2, 5/2 and 5/3 way Inline valves
- The new 2-in-1-valve with 2 x 3/2 way valves in one body
- Uniform pilot system with exchangeable solenoid for all standard voltages, also suitable for EEx Solenoids
- Versions with internal and external air supply
- The valves are suitable for standard compressed air and oil-free application
- Under normal operating conditions the valve has a life of 50 million switching cycles
- The valve system (cartridge) is an optimized version of the sealing system proven in millions of applications

## Whatever size you need -



... we have it!

## The manifold system -



...flexible and thought out

## What you can expect ... the manifold system:

- Modular in double stages, retrospectively extendible
- As a fixed length up to max. 20 stations
- Special lengths and different types of connection
- Common external air supply and pilot air exhaust possible

# The valve family – Function and Design

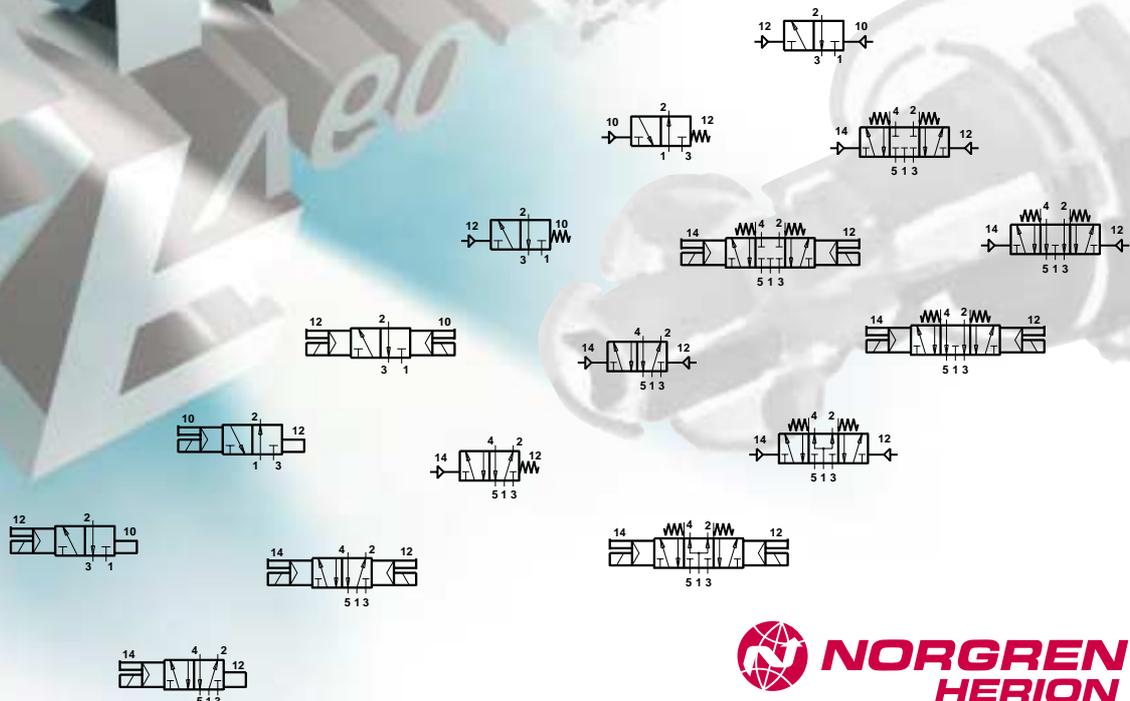
## Electrically operated

- G1/8 G1/4 G3/8 G1/2  
750 1,300 2,600 5,500 l/min
- Pressure range 2 ... 8 bar  
(internal air supply)  
Pressure range -0,9 ... 8 bar  
(external air supply)
- Standard power consumption 2 Watt
- Connector acc. to DIN 43650  
Type B or Industrial standard (22 mm)



## Pneumatically operated

- G1/8 G1/4 G3/8 G1/2  
750 1.300 2.600 5.500 l/min
- pilot connection M5
- Pressure range -0,9 ... 10 bar



# The valve with double intelligence

## Advantages

- 2 pilot valves on 1 side
- Both manual overrides on 1 side
- Only 1 connector necessary
- Reduced size
- Minimum power input

## Technical features of the double pilot valve

- Integrated LEDs and surge suppression
- Connector acc. to DIN 43650 Type C
- 3 different manual overrides: with / without detend and without manual override
- Pressure range 2 ... 10 bar (internal air supply)  
Pressure range -0,9 ... 10 bar (external air supply)
- Standard power consumption 2 Watt



## Used on all Inline valves with 2 pilot valves

- 2 x 3/2 way valves in 1 body
- 5/2 way with 2 pilot valves
- 5/3 way valves for all functions (APB, COE, COP)

Also on valves with only one pilot valve

- 3/2 way and 5/2 way valves with reposition
- For application with the inter-connecting system
- All valves with the same magnetic plug

# How to order...

Model-Number	V	6	[1]	[2]	[3]	[4]	[5]	-	[6]	[7]	[8]	[9]	[10]	Issue 07/99
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[1] valve size / thread size		
0A	=	G 1/8
1B	=	G 1/4
2C	=	G 3/8
3D	=	G 1/2 <sup>(1)</sup>
0P	=	1/8 NPT
1R	=	1/4 NPT
2S	=	3/8 NPT
3T	=	1/2 NPT <sup>(1)</sup>

[2] valve function <sup>(2)</sup>		
3	=	3/2-WV-NO
4	=	3/2-WV-NC
5	=	5/2-WV
6	=	5/3-WV-APB
7	=	5/3-WV-COE
8	=	5/3-WV-COP
A	=	2x3/2-WV-NC
B	=	2x3/2-WV-NO
C	=	2x3/2-WV-NO/NC

[3] operator type		
electro-pneumatical		
1	=	internal air supply
2	=	external air supply
pneumatical		
D	=	pilot

[4] operator type		
electro-pneumatical		
1	=	internal air supply
2	=	external air supply
3	=	air return
pneumatical		
7	=	spring
D	=	pilot

[5] operator type		
A	=	single pilot / pneumatical
D	=	double pilot <sup>(3) (5)</sup>

<sup>(1)</sup> from 2000

<sup>(2)</sup> WV = way valve  
 NO = normally open  
 NC = normally closed  
 APB = all ports blocked  
 COE = central open exhaust  
 COP = central open pressure

[6] operator type		
A	=	solenoid operated single pilot
C	=	solenoid operated double pilot
X	=	air operated

[7] manual override / connector		
electro-pneumatical		
1	=	without
2	=	with detent
3	=	without detent
pneumatical		
5	=	thread size M5

[8] solenoid / pneumatical		
0	=	without solenoid / pneumatical
1	=	with solenoid

[9] voltage / operator type pneumatical		
electro-pneumatical		
2	=	12 VDC
3	=	24 VDC
4	=	24 VAC 50/60 Hz
5	=	48 VDC
8	=	110/120 VAC 50/60 Hz
9	=	220/240 VAC 50/60 Hz
0	=	without solenoid
pneumatical		
2	=	pilot / pilot
9	=	pilot / spring

[10] connector type / pneumatical standard		
electro-pneumatical with solenoid		
A	=	ISO/DIN 43650 type C <sup>(4) (5)</sup>
J	=	industrial standard (22 mm)
L	=	ISO/DIN 43650 type B (22 mm)
pneumatical / without solenoid		
0	=	standard

<sup>(3)</sup> only in combination with connector type, see code [10] ... A (ISO / DIN 43650 type C)

<sup>(4)</sup> only in combination with two double pilot, see code [5] ... D (ISO / DIN 43650 type C)

<sup>(5)</sup> only in 24 VDC see code [9] ... 3



Actuators



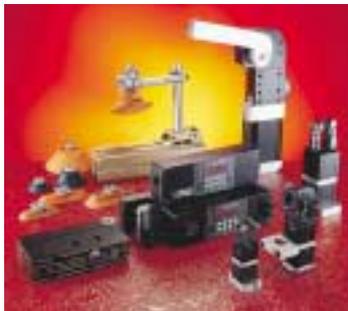
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