

Valves for Safety Applications



- Inherently fail-safe
- Dynamic self-monitoring
- No residual pressure
- Large exhaust capacity
- World-wide Safety Approvals

ESSENTIAL PRINCIPLES

Basic features of safety valves

- Inherently fail safe design
- Dynamic self monitoring
- Double crossflow channel design
- Residual pressure-free system
- Large exhaust capacity
- Short response time
- Long life

Complete range of standard and special valves

- 3/2 pneumatically controlled safety valves
- 5/2 pneumatically controlled safety valves

The solution for many delicate safety applications

The main principles to be kept in mind when thinking about safety applications are:

- prevent people from getting hurt
- protect expensive machine parts and mechanical elements

Where Safety matters...



IN THE WORLD OF SAFETY VALVES



**Norgren and Herion, the perfect fit
in Safety Knowledge...**

**Norgren-Herion XSz safety valves –
The ultimate choice when it comes to**

- fail safe operation
- emergency stop
- satisfying safety regulations
- increasing safety
- prevent injury
- protect expensive equipment
- increase productivity

**...Norgren-Herion
the safety solution!**

Safety requirements



Whatever the safety requirements
Norgren-Herion has the solution:
3/2 – 5/2 safety valves for many
applications:

- mechanical presses
- pneumatic presses
- amusement park facilities
- emergency brake systems
- handling systems (or robots)
- process control
- special machines

3/2 – 5/2 safety valves

***X5z* 10**

- 3/2 safety valve
- fail safe
- G 1/2 or 1/2 NPT
- sub-base mounted



***X5z* 20**

- 3/2 safety valve
- fail safe
- G 3/4 or 3/4 NPT (1 optionally)
- sub-base mounted



***X5z* 32**

- 3/2 safety valve
- fail safe
- G 1 or 1 NPT (1 1/2 optionally)
- sub-base mounted



***X5z* 50**

- 3/2 safety valve
- fail safe
- G 2 or 2 NPT
- inline or flanged

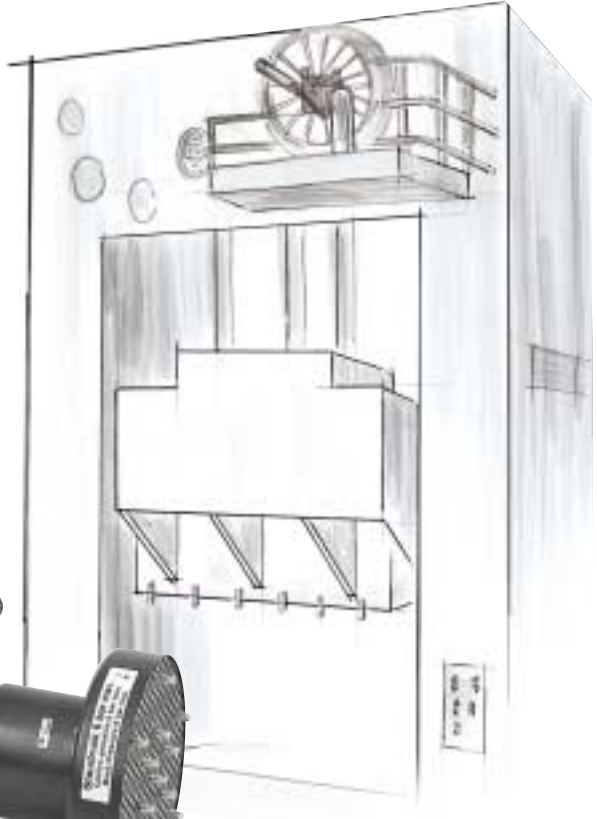


***X5z* 10V**

- 5/2 safety valve
- fail safe
- G 1/2 or 1/2 NPT
- sub-base/inline



Additional Equipment



Damping Modules

- soft start
- soft stop

Overlap correction

Failure indication elements

Safety Silencers – thread connection

Safety Silencers – flange connection



Safety valves with integrated rotary union

X5z 20

X5z 32

Technical Data

3/2 Safety Valves

Model	Part Number		Voltage	Port Size		
	G-thread	NPT-thread		1 (P)	2 (A)	3 (R)
XSz 10	2492900.0200	2492920.0200	ac	1/2	1/2	3/4
XSz 10	2492901.0200	2492921.0200	dc	1/2	1/2	3/4
XSz 20	2493000.0800	2493020.0800	dc/ac	1/2	3/4	1
XSz 20	2493040.0800	2493045.0800	dc/ac	3/4	3/4	1
XSz 20	2493042.0800	–	dc/ac	3/4	1	1
XSz 32	2493130.0800	2493120.0800	dc/ac	1	1	1 1/2
XSz 32	2493134.0800	–	dc/ac	1	1 1/2	1 1/2
XSz 50	2493230.0800	2493220.0800	dc/ac	1 1/2	2	2

5/2 Safety Valves

Model	Part Number		Voltage	Port Size				
	G-thread	NPT-thread		1 (P)	2 (A)	3 (R)	4 (B)	5 (S)
XSz 10 V	2492950.0200	2492970.0200	ac	1/2	1/2	3/4	1/2	1/2
XSz 10 V	2492951.0200	2492971.0200	dc	1/2	1/2	3/4	1/2	1/2

For further information please see the following brochures (available at Norgren Herion):

item	brochure number
safety valves: XSz 10, XSz 20, XSz 32, XSz 50, XSz 10 V	5.4.303.01 5.4.310
additional equipment: XSz with integrated rotary union	5.4.316
safety silencers - thread connection	5.11.042
safety silencers - flange connection	5.4.315
soft start ("soft clutch") valve	5.11.041
soft stop ("soft brake") valve	5.4.311
overlap correction	5.4.317
failure indication elements	5.4.317





Actuators



Pneumatic control and process valves



Air preparation



Fittings and accessories



Handling components



Handling systems

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GLOBAL SERVICE NETWORK

Norgren is a leading world manufacturer and supplier of pneumatic solutions, offering a comprehensive range of pneumatic components and automation systems via a global sales and service network which covers 70 countries worldwide. The company is a principal member of the diverse and internationally successful £1.4 billion IMI Group.



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