

with dynamic monitoring

Inherently fail-safe without residual pressure

Dynamic self monitoring

Double valve control system

For use with pneumatic clutch and brake systems and other 3-way safety functions, such as monitored dump valve with feedback system

Poppet design with feedback signal ports

Fast exhaust capability

Meets the intent of Press Safety Standards - ANSI B11-1 2009; CSA Z142-10, BG692, OSHA Code 29 part 1910.217 (b) (7) (I and XI). Conforms to ISO 13849-1 (performance level "e" category IV)

Improves safety and reduces downtime

Quick and easy adjustment of 'overlap'on mechanical presses

No additional electrical monitoring required

Easily fitted into existing systems

Norgren-Herion XSz safety valves are also available in 5-port configuration

Medium

Compressed air, filtered, lubricated or non-lubricated

Shell Hydrol DO 32, Esso Febis K 32 (as of July 1992) or comparable oil with DVI values < 8 (DIN 53521) and ISO viscosity class 32-46

(DIN 51519), Filtration 25 - 50 mm

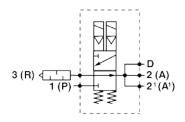
Operating Pressure:

29 to 145 psig (2 to 10 bar)

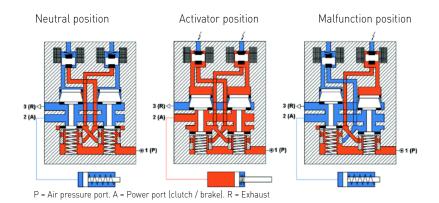
Temperature range:

14°F to 140°F (-10 to 60°C) To secure the safety function of the valve at subzero temperatures it is important that the air is dry enough to prevent an icing of valve and silencer. Mounting position: Preferably vertically Additional equipment: Soft clutch module Soft brake module Safety silencer Failure indication elements Nozzle for overlap adjustment (exclusively XSz32 and 50) Materials: Body: aluminium Seals: polyurethane (AU), NBR Materials:Body: aluminium Seals: polyurethane (AU), NBR









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VAL-239

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Size	Type/	NPT Po	rt Sizes	2	Weight	Flow (Cv)		Part no.		
	model no.	1 (P)	2 (A)	3 (R)	lbs.	1 → 2	2 → 3	Valve/solenoid	Voltage ¹	AC/DC (Hz)
1/4"	XSz-8	1/4"	1/4"	3/8"	2.6	2.3	2.5	2492807.3053	120V	60 Hz
1/4"	XSz-8	1/4"	1/4"	3/8"	2.6	2.3	2.5	2492807.3053	24V	DC
1/2"	XSz-10	1/2	1/2	3/4	6	2.8	5.8	2492931.3053	120V	60 Hz
1/2"	XSz-10	1/2	1/2	3/4	6	2.8	5.8	2492931.3053	24V	DC
3/4"	XSz-20	3/4	3/4	1	10	8.0	13.2	2493039.0201	120V	60 Hz
3/4"	XSz-20	3/4	3/4	1	10	8.0	13.2	2493039.0201	24V	DC
1"	XSz-32	1	1	1-1/2	17	12	23.3	2493120.0801	120V	60 Hz
1"	XSz-32	1	1	1-1/2	17	12	23.3	2493120.0801	24V	DC
1-1/2"	XSz-50	1 -1/2	2	2	34	20.4	62.4	2493220.0801	120V	60 Hz
1-1/2"	XSz-50	1-1/2	2	2	34	20.4	62.4	2493220.0801	24V	DC

1. Additional Voltages available upon request

2. 1 (P) = Pressure port, 2 (A) = Working port, 3 (R) Exhaust Port

3. CSA certification should be requested with the purchase order

Size	Type/	BSPP port			Flow (Cv)		Part number		
	model	1 (P)	2 (A)	3 (R)	1 → 2	$2 \rightarrow 3$	Valve/solenoid	Voltage (1)	AC/DC (Hz)
1/4"	XSz-8	1/4"	1/4"	3/8"	2.3	2.5	2492806.3053	120V	60 Hz
1/4"	XSz-8	1/4"	1/4"	3/8"	2.3	2.5	2492806.3053	24V	DC
1/2"	XSz-10	G 1/2	G 1/2	G 3/4	2.8	5.8	2492930.3053	120V	60 Hz
1/2"	XSz-10	G 1/2	G 1/2	G 3/4	2.8	5.8	2492930.3053	24V	DC
3/4"	XSz-20	G 3/4	G 3/4	G 1	8	13.2	2493038.0201	120V	60 Hz
3/4"	XSz-20	G 3/4	G 3/4	G 1	8	13.2	2493038.0201	24V	DC
1"	XSz-32	G 1	G 1	G 1-1/2	12	23.3	2493130.0801	120V	60 Hz
1"	XSz-32	G 1	G 1	G 1-1/2	12	23.3	2493130.0801	24V	DC
1-1/2"	XSz-50	G 1-1/2	G 2	G 2	20.4	62.4	2493230.0801	120V	60 Hz
1-1/2"	XSz-50	G 1-1/2	G 2	G 2	20.4	62.4	2493230.0801	24V	DC

1. Additional Voltages available upon request

2. 1(P) = Pressure port, 2(A) = Working port, 3 (R) = Exhaust Port

3. ISO 228/ 1 (BSPP Threads)

Solenoids

Power Consumption							
DC	AC						
	Inrush	Holding					
11 W	22 VA	15 VA					
16 W	50 VA	27 VA					
4.8W	12 VA	8.5 VA					
	DC 11 W 16 W	DC AC Inrush 11 W 22 VA 16 W 50 VA					

Connectors

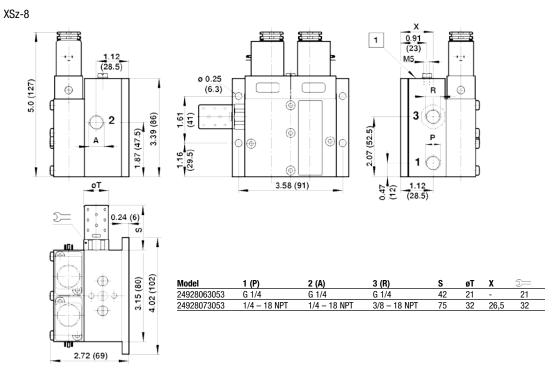
		Part Number	
Connector Type	Standard	Lighted	Lighted
		24 DC	120 VAC
Cable Clamp	0570275	0570818	0570816
	0680003 (XSz	:8 and 10)	
Conduit – 1/2"	0661374	8110111	8110113
Brad Harrison – 5 pin	8111900		
Brad Harrison – 3 pin	8110100		
Cable Clamp with	8111979		
Surge Suppressor			

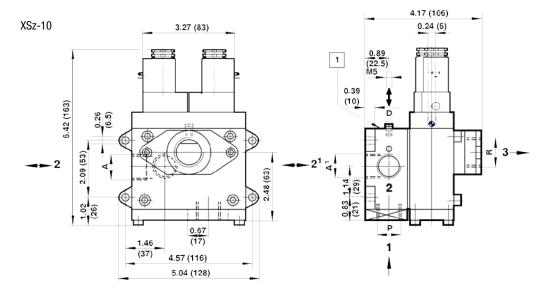


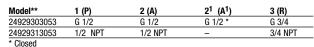


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Dimensions in inches (mm)







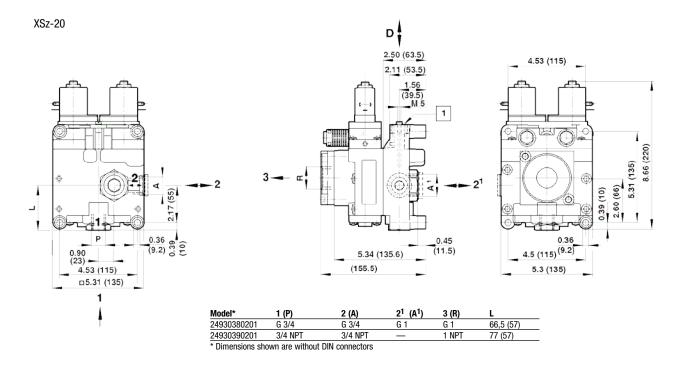
** Dimensions shown are without DIN connectors



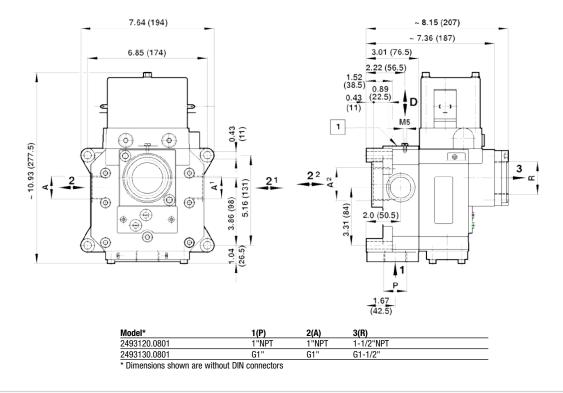


with dynamic monitoring

Dimensions in inches (mm)



XSz-32



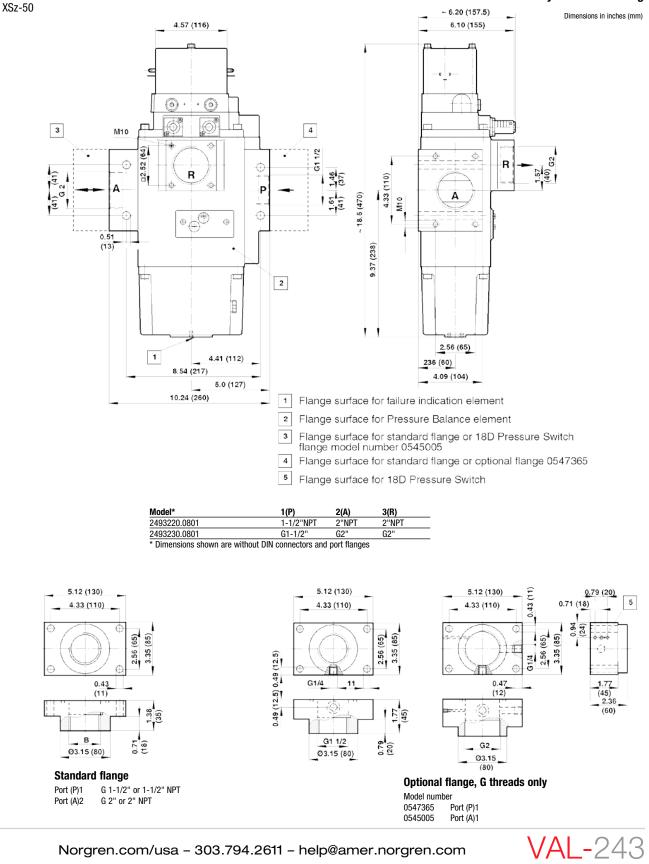
VALVES

VAL-242

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LVES



XSz ACCESSORIES

XSz Safety silencer – flange connection

Туре	Models
XSz 8	MB002B
XSz 10/XSz 10 V	0016422
XSz 20	0016522
XSz 32	0016622
Low noise silencer	
Size	Model
3/4"	0016480
1"	0016580
1-1/4"	0016880
1-1/2"	0016680
2"	0016780

Can be mounted directly to the valve
Direct flange mounting
Low weight
Small size
Meets requirements contained in the safety regulations
The free passage inside the silencer eliminates possible obstruction



For standard threaded silencers please see the Quietaire heavy duty mufflers.

XSz Damping module – soft start

Operating pressure (bar)	Control pressure (bar)	Smooth start	Voltage	MODELS
0,6 8	0,6 8	From 2 bar	d.c.	1020113.0700
0,6 8	0,6 8	From 0 2 bar	a.c.	1020113.3703
0,6 8	0,6 8	From 0 2 bar	d.c.	1020141.0800
0,6 8	0,6 8	From 0 2 bar	a.c.	1020141.3803

Adapter plate for flanged version, type XSz 50, model 0557164

All solenoids are delivered without plugs. If required, select model 0570275 **CAUTION:** For mounting the soft start valve on an XS/XSz 50 valve, an adapter flange plate (pn 0557164) is necessary. It is ordered separately. Compact design Simple installation Reduction wear and tear

Noise-reduction

The soft start valve can be used for a soft engagement of the pneumatically operated clutch on presses and also for a soft pressure build-up on a machine. It can be directly flanged on port 1 (P) of the safety valve XSz 32 and with an adapter plate on the XSz 50. It has an interchangeable bypass orifice to adapt to individual operating conditions.

XSz Damping module - soft stop

Туре	Control pressure (bar)	Voltage	MODELS
XSz 32	2 8	a.c./d.c.	1022023.0200
XSz 50	2 8	a.c./d.c.	1022035.0800

Compact design

Adapts easily to prevailing operating conditions

Reduction of noise, wear and tear

The soft stop valve can be used for a soft engagement

of the pneumatically operated brake on presses and for a soft pressure drop on a machine. It is connected downstream

of the safety valve and functions as a 2/2 directional control valve

which is normally open. The switching position is monitored via a mechanical or proximity switch.

The soft stop valve can be directly flanged on port 3 (R) of the safety valves XSz 32 and XSz 50





XSz ACCESSORIES

Failure indication elements for XSz safety valves

Although the XSz safety valves do not require any external electrical monitoring to fulfil the safety function, some applications need to have a visual electrical or acoustic signalling of a malfunction.

This can be achieved by failure indication elements mounted on the XSz safety valve.

Description	XSz8	XSz 10	XSz 20	XSz32	XSz 50	XSz 10 V	Note
Pressure switch	•	•	•	•	•	•	Switcl depen
Failure indication	•	•	•	•	•	•	Switcl
Pressure balance				•	•		For se

alves	-	1 2		AND REAL
			xPressure balance	0
	Pressure switch	Failure indication module	20	
z 10 V	Notes		MODELS	0
	Switches every time the valve switches dependent on the valve	hes, response time	0881400	a .
	Switches only in case of malfunctio	n	1028063	69 1
	For separately used clutch and brak	(e	1028100	

* Mounting only possible with flange model 0545005

Counter Balance Pressure Control Module

Counter Balance Pressure Control Module valve is used to control the pressure of large air volumes such as cushions, rams, and counterbalance systems on mechanical power presses. Excellent for automatic counterbalance control through PC, PLC, or other control systems

Excelon Modular Quickclamp system makes it a compact unit with no piping

Manual pressure regulation and manual operated dump lockout/tag-out

Can be locked through manual lockout valve during service

Contact Norgren for additional information.



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