











# EXPLOSIONPROOF EQUIPMENT

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<b>SHORT STROKE CYLINDERS</b>							
	II 2 GD c - Ta 40°C T 85°C (T6) - Ta 70°C T 100°C (T5) II 3 GD c - Ta 40°C T 85°C (T6) - Ta 70°C T 100°C (T5)		1-21 2-22			<a href="#">441</a>	Cylinders & Actuators
<b>ISO 21287</b>	<i>Compact cylinders</i> II 2 GD c - Ta 40°C T 85°C (T6) - Ta 70°C T 100°C (T5) II 3 GD c - Ta 40°C T 85°C (T6) - Ta 70°C T 100°C (T5)		1-21 2-22			<a href="#">449</a>	
<b>ROUND ISO CYLINDERS</b>							
<b>ISO 6432</b>	II 2 GD c - Ta 40°C T 135°C (T4) - Ta 70°C T 200°C (T3)		1-21			<a href="#">435</a>	Cylinders & Actuators
<b>ISO 6431</b>	II 3 GD c - Ta 40°C T 135°C (T4) - Ta 70°C T 200°C (T3)		2-22			<a href="#">438</a>	
<b>ISO 15552 CYLINDERS</b>							
<b>ISO 15552</b>	With profiled barrel	II 2 GD c IIC Ta 70°C T 135°C (T4) II 3 GD c IIC Ta 70°C T 135°C (T4)	1-21 2-22			<a href="#">453</a>	Cylinders & Actuators
		<i>Food industry applications</i> II 2 GD c IIC Ta 70°C T 135°C (T4) II 3 GD c IIC Ta 70°C T 135°C (T4)		1-21 2-22			
	With tie-rods	II 2 GD c IIC Ta 70°C T 135°C (T4)	1-21			<a href="#">450</a>	
		II 3 GD c IIC Ta 70°C T 135°C (T4)	2-22				
<b>Magnetic sensors</b>							
ATEX	"T" model, reed switch or magneto-resistive type II 1GEx ia IIC T4 Ga / II 1D Ex ia IIIC T135°C Da II 3G Ex nA T4 X / II 3D Ex tD A22 IP67 T125°C X		0-20 2-22			<a href="#">494 (reed)</a> <a href="#">494 (MR)</a>	7 9 11 (mounting kits)

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Explosionproof equipment - I

Function	Description	Zones	Pipe connections	illustration	Series	Page
<b>Proportional valves</b>						
3/2	SENTRONIC <sup>PLUS</sup> II 2D Ex tb IIIC T135 °C Db II 3G Ex nA IIC T4 Gc, 0 ≤ Ta ≤ +50 °C	1-22	1/8 1/4 1/2 1		614	Proportional Valves <a href="#">digital electronics</a> with external <a href="#">pneumatic pressure</a> <a href="#">supply</a>
<b>Air operated valves</b>						
3/2 NC 5/2 NAMUR	spool valves aluminium body II 2GD IIC T85°C (T6) X	1-21	1/4 1/2		551	Air Operated <a href="#">3/2 - 5/2</a>
	stainless steel body II 1 GD c (551)/ II 2 GD c (553)	2-22			553	<a href="#">3/2 - 5/2</a> <a href="#">NAMUR</a>
4/2	poppet valves II 2 GD c - Ta 40°C T 85°C (T6) / II 3 GD c - Ta 40°C T 85°C (T6)	1-21 2-22	instant fittings G1/8-G1/4		<a href="#">263</a> <a href="#">264</a>	Air Operated
5/2-5/3	spool valves, ISO1-ISO2-ISO3 II 2 GD c - Ta 60°C T 85°C (T6) / II 3 GD c - Ta 60°C T 85°C (T6)	1-21 2-22	pad mount G1/8 to G3/4		<a href="#">541</a> <a href="#">542</a> <a href="#">543</a>	Air Operated
<b>Solenoid air operated valves</b>						
4/2	poppet valves II 2 GD c - Ta 40°C T 85°C (T6) II 3 GD c - Ta 40°C T 85°C (T6)	1-21 2-22	instant fittings G1/8 G1/4		<a href="#">263</a> <a href="#">264</a>	Pneumatic Valves
5/2-5/3	spool valves (ISO1-ISO2-ISO3) II 2 GD c - Ta 60°C T 85°C (T6) II 3 GD c - Ta 60°C T 85°C (T6)	1-21 2-22	pad mount G1/8 to G3/4		<a href="#">541</a> <a href="#">542</a> <a href="#">543</a>	
3/2 NC 5/2 5/3 NAMUR	Solenoid air operated spool valves, pilot operated (aluminium, brass or stainless steel body) LPKF/WSLPKF operators: II2G Ex d IIB+H2 T6, II2D Ex tD A21 IP67 T85°C LI/WSLI operators: II1G Ex ia IIC T6 Ga, II2D Ex t IIIC IP67 T85°C Db	1-21 0-21	1/4-1/2		551-553 551 551-553	aluminium: <a href="#">3/2-5/2-5/3-NAMUR</a> brass: <a href="#">3/2-5/2-NAMUR</a> stainless steel: <a href="#">3/2-5/2-5/3-NAMUR</a>
3/2 NC	Solenoid valves, direct operated, aluminium body, with LPKF type operator II2G Ex d IIB+H2 Gb T6..T4, II2D Ex t IIIC Db IP67	1-21	ISO 15218 (CNOMO, size 30)		314/ LPKF	<a href="#">www.asco.com</a>
3/2 NC 5/2 5/3 NAMUR	Solenoid air operated spool valves, pilot operated (aluminium, brass or stainless steel body) (Pilot valve, 302 series: II 3G/3D Ex nA) (Pilot valves, Ex ia: 302,195/LISC, Piezotronic)	2-22 1-21	1/4-1/2		551-553 551-553	aluminium: <a href="#">3/2-5/2-NAMUR</a> stainless steel: <a href="#">3/2-5/2-NAMUR</a>
<b>Solenoid pilot valves, coils and solenoid operators</b>						
2/2 NC-NO 3/2 NC-NO-U	Solenoid valves, direct operated, plastic body, pad mount, ISO 15218 (CNOMO, size 15) II 3G Ex nA IIC T6..T4 Gc, II 3D Ex tc IIIC IP65 T85°C..T135°C Dc	2-22			302	<a href="#">www.asco.com</a>
3/2 NC- NO	Solenoid valves, direct operated, plastic body, pad mount, ISO 15218 (CNOMO, size 15) II 1G Ex ia IIC T6, II 1D Ex ia IIIC T 85°C				630	<a href="#">www.asco.com</a>
3/2 NC	Solenoid valves, direct operated, plastic body, pad mount, ISO 15218 (CNOMO, size 15) II 1 G Ex ia IIC T6..T4 Ga, II 1 D Ex ia IIIC T85°C .. T135°C IP65 Da	0-20			302	<a href="#">www.asco.com</a>
3/2 NC	Solenoid valves, direct operated, aluminium body, pad mount, ISO 15218 (CNOMO, size 30) II 1G Ex ia IIC T6 Ga, II 2D Ex ib IIIC T85°C Db IP67				195/ LISC	<a href="#">www.asco.com</a>
2/2-3/2 5/2-5/3	Operators, moulded coil (EM5-MXX) II 2 G Ex mb II T6..T3, II 2 D Ex mD 21 IP67	1-21			PV	<a href="#">www.asco.com</a>
3/2 5/2-5/3	Operator, increased safety/encapsulated II 2G Ex e mb IIC T4 Gb, II 2D Ex t IIIC T135°C Db IP67 (22 and 30 sizes)	1-21			WBLP	<a href="#">www.asco.com</a>
2/2-3/2 5/2-5/3	for dust applications II 3 D Ex tc IIIC T115°C Dc IP65X	22			SG	<a href="#">www.asco.com</a>

Function	Description	Zones	Pipe connections	illustration	Series	Page
<b>Manually and mechanically operated pneumatic valves</b>						
3/2 NC-NO 5/2-5/3	Standard products not requiring ATEX 94/9/EC approval for use in potentially explosive atmospheres	1-21	1/8-1/4-3/8		<b>307</b> <b>308</b> <b>309</b> <b>310</b> <b>320</b> <b>550</b> <b>551</b> <b>552</b>	<b>Manually &amp; Mechanically Operated Valves</b>
3/2 NC-NO 5/2						
<b>Spool valve islands</b>						
	spool valve island Protocols: DeviceNet™, EtherNet/IP™, Modbus/TCP, Profibus DP, PROFINET, EtherNet/IP™ DLR, CHARM, IO-Link Class A (4 pin), IO-Link Class B (5 pin) Gas and Dusts: II 3G Ex nA IIC T4 Gc IP54 X or IP65 X II 3D Ex tc IIIA or IIIB T85°C Dc IP54 X or Ex tc IIIC T85°C Dc IP65 X Dusts: II 3G Ex nA IIC T4 Gc IP54 X	2-22	G 1/8		<b>501</b>	<a href="http://www.asco.com">www.asco.com</a>
	spool valve island II 2 GD	1-21	G 1/8 G 1/4		<b>622</b>	<a href="http://www.asco.com">www.asco.com</a>
<b>Air Preparation, 651-652 Series</b>						
	FR + L air preparation manifold assemblies Particulate Filter / Coalescing filter & absorber Regulator / Coalescing filter & absorber Particulate Filter / Manifold regulator Particulate filter/regulator /Coalescing filter/regulator Lubricator / Shut-off isolation valve Slow-start/quick exhaust valve / Diverter block II 2 GD IIC T85°C (T6) X / II 2 GD IIC T00°C (T5) X	1-21 2-22	1/8 to 1/2		<b>651</b> <b>652</b>	<b>Air Preparation</b>
<b>Air preparation, stainless steel AISI 316L, 342 Series</b>						
	Filter, Regulator and Filter/Regulator (ATEX / CUTR / NACE) II 2GD IIC T100°C (T5), with 90°C ambient temperature II 2GD IIC T85°C (T6), with 75°C ambient temperature	1-21	1/4 - 1/2			<a href="http://www.asco.com">www.asco.com</a>
<b>Pneumatic logic components</b>						
	Sequencer registers, logics, threshold relays, timer relays, one-pulse generator, subbases II 2 GD c IIB 65°C T6X / II 2 GD c IIB 60°C T6X / II 2 GD c IIB T6X	1-21				<b>Pneumatic Automation</b>
<b>Accessories</b>						
	Pneumatic accessories	1-21 2-22			<b>346</b>	<b>Coils &amp; Accessories</b>
	Cable glands Ex d, ATEX / IECEx, II 2 G Ex d IIC, II 2 D Ex tb IIIC	1-21			<b>882</b>	<a href="http://www.asco.com">www.asco.com</a>

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