



创新 / 合作 / 共赢
Emergency Inlet Shutoff Valve
FSV 系列
紧急进气关断阀



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雨凡机械科技 (上海) 有限公司
YuFan Machinery Technology(Shanghai) Co., LTD.

紧急进气关断阀

FELICIA FSV系列/FSV-QD气动系列

FELICIA紧急进气关断阀是一种阻断发动机进气迫使发动机停机的电控式紧急关断系统。当发动机超速或超过预设转速（或人为操控），关断阀自动关闭。阀关闭后，需手动复位打开。



超速紧急切断·零逃逸风险

当柴油机发生“飞车”（吸入可燃气体 / 粉尘导致转速失控）时，可瞬间切断进气通道，强制发动机停机，彻底避免设备损毁、火灾爆炸等恶性事故，是防爆工况下的必备安全屏障。



双重控制·安全冗余拉满

集成电控 + 机械手动双操作模式：电控可远程 / 自动触发切断，红色手动复位手柄支持现场应急操作，同时配备电气接插件，可接入发动机控制系统，实现联动保护。



高可靠密封·长期稳定不漏气

采用金属硬密封 + 精密加工蝶阀结构，阀体与阀板均为铝合金材质，表面精加工，在高温、振动、油污环境下无橡胶件老化失效风险，长期使用仍能保持零泄漏，确保切断动作万无一失。



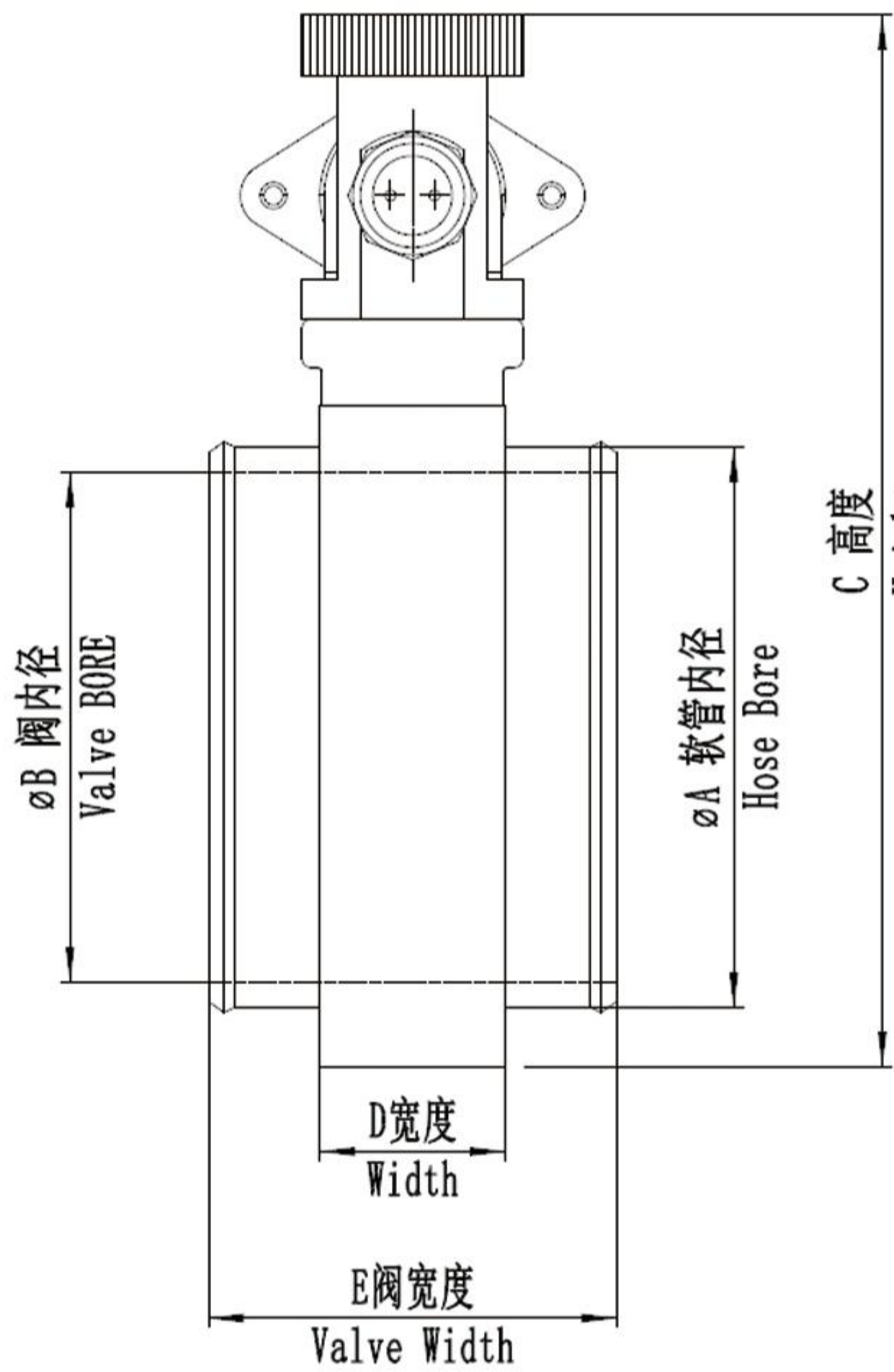
阀尺寸

部分型号	软管孔径 A	阀内径 B	高度 C	宽度 D	宽度 E	重量
FSV20	50.8 mm [2 in]	55 mm [2.2 in]	165.5 mm [6.52in]	42 mm	92.4 mm	1.9KG
FSV25	64 mm [2.5 in]	55 mm [2.2 in]	165.5 mm [6.52 in]	42 mm	92.4 mm	2.0KG
FSV30	76 mm [3.0 in]	71 mm [2.8 in]	183.5 mm [7.22 in]	42 mm	92.4 mm	2.1KG
FSV35	88.9 mm [3.5 in]	71 mm [2.8 in]	183.5 mm [7.22 in]	42 mm	92.4 mm	2.2KG
FSV40	102 mm [4.0 in]	93 mm [3.66 in]	213.5 mm [8.41 in]	42 mm	92.4 mm	2.6KG
FSV45	114.3 mm [4.5 in]	93 mm [3.66 in]	213.5 mm [8.41 in]	42 mm	92.4 mm	2.9KG
FSV50	127 mm [5.0 in]	118 mm [4.65 in]	238.5 mm [9.4 in]	42 mm	92.4 mm	3.0KG
FSV55	140 mm [5.5 in]	118 mm [4.65 in]	238.5 mm [9.4 in]	42 mm	92.4 mm	3.4KG
FSV60	152 mm [6.0 in]	143 mm [5.63 in]	270 mm [10.63 in]	42 mm	92.4 mm	3.5KG
FSV65	165.1 mm [6.5 in]	143 mm [5.63 in]	270 mm [10.63 in]	42 mm	92.4 mm	4.2KG
FSV70	178 mm [7 in]	168 mm [6.61 in]	297 mm [11.7 in]	65 mm	145 mm	5.3 KG
FSV75	190.5mm [7.5 in]	168 mm [6.61 in]	297 mm [11.7in]	65 mm	145 mm	6.1KG
FSV80	203mm [8 in]	190 mm [7.48 in]	321.5 mm [12.66in]	65 mm	145 mm	6.3 KG
FSV85	216mm [8.5 in]	190 mm [7.48 in]	321.5 mm [12.66in]	65 mm	145 mm	7.3 KG

阀参数	
最大增压进气压力（表压）	3.45 bar [50 psig]
连续进气温度	-55°C to +200°C[-40°F to +392°F]
环境温度范围	-40°C to +120°C[-40°F to +248°F]
静止位置	阀打开
激活位置	阀关闭
标准安装法兰	软管对软管
口径范围	Ø38mm to Ø203mm[Ø1.5 in to Ø8 in]
磁铁接插件	FEMALE 15300027（用户配公头 MALE 15300002）
位置开关接插件	FEMALE DT06-2S（用户配公头 MALE DT04-2S）

FSV 电磁线圈系列（可手动）	FSV-QD 气动系列
电压	气压
24VDC/12VDC	0.4-0.8MPa

胶管配件	
胶管颜色可能与图片不同。	
描述	有机硅胶“A”级，4层聚酯增强
环境温度范围	-50°C to +200°C [-58°F to +392°F]
压力等级	符合 SAEJ20(20R1HD SW) 标准
可选项	根据现场定制胶管



Emergency Air Shut-off Valve

FELICIA FSV Series/FSV-QD Pneumatic Series

The FELICIA emergency intake shut-off valve is an electronically controlled emergency shut-off system designed to block the engine's air intake and force the engine to stop. Should the engine overspeed or exceed a preset speed (or as a result of manual intervention), the shut-off valve closes automatically; once closed, it must be manually reset to reopen.



Quick cut-off, high safety

In the event that a diesel engine experiences runaway speed due to the ingestion of flammable gases or dust, this system can instantly cut off the air supply and force the engine to shut down, thereby effectively preventing serious accidents such as equipment damage, fire and explosion. It is an essential safety device for explosion-proof environ-



Dual control · Maximum security

Integrated electronic control + mechanical manual dual-mode: the electronic control system supports remote and automatic shutdown, whilst the red handle allows for manual reset on-site; comes with a standard electrical interface for connection to the engine system to enable interlocked protection.



Secure seal · No air leaks over time

Featuring a precision butterfly valve design with a metal hard seal, both the valve body and disc are precision-machined from aluminium alloy; with no rubber components prone to wear, it offers high-temperature resistance, vibration resistance and oil resistance, eliminating the risk of ageing and failure, ensuring zero leakage during long-term operation and providing a safe and reliable shut-off.



Valve Dimensions

Part. NO.	A-Hose Bore Diameter	B-Valve Bore Diameter	C-Height	D-Width	E-Width	Weight
FSV20	50.8 mm [2 in]	55 mm [2.2 in]	165.5 mm [6.52in]	42 mm	92.4 mm	1.9KG
FSV25	64 mm [2.5 in]	55 mm [2.2 in]	165.5 mm [6.52 in]	42 mm	92.4 mm	2.0KG
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FSV85	216mm [8.5 in]	190 mm [7.48 in]	321.5 mm [12.66in]	65 mm	145 mm	7.3 KG

Valve specifications	
Maximum boost pressure (gauge pressure)	3.45 bar [50 psig]
Continuous inlet temperature	-55°C to +200°C[-40°F to +392°F]
Ambient temperature range	-40°C to +120°C[-40°F to +248°F]
Resting position	The valve is open
Activation location	Valve closed
Standard mounting flange	Hose to hose
Range of diameters	Ø38mm to Ø203mm[Ø1.5 in to Ø8 in]
Magnetic connectors	FEMALE 15300027(Mating: MALE 15300002)
Position switch connector	FEMALE DT06-2S (Mating: MALE DT04-2S)

FSV solenoid coil series(with manual override)	FSV-QD pneumatic series
Voltage	air pressure
24VDC/12VDC	0.4-0.8MPa

Hose fittings	
The colour of the hose may differ from that shown in the image.	
Description	Grade A silicone rubber, 4-layer polyester-reinforced
Ambient temperature range	-50°C to +200°C [-58°F to +392°F]
Pressure rating	Complies with the SAE J20 (20R1HD SW) standard
Optional	Hoses made to order on site

