Soft Start Fittings

These fittings protect your system by preventing sudden shocks. On start-up, they control the **pressure increase** in the downstream circuit; this helps **prevent the risk** of industrial accidents.

Product Advantages

Protection of Equipment & Personnel

- Prevents the risk of damage after any stoppage which requires the system to be vented
- Returns the control valve to its initial position in total safety
- Adjustment of the pressurisation speed
- Protects the adjustment mechanism using a recessed adjustment screw

Mounted on FRL

- Models 7860 and 7861: yellow identification washer
- Protection for the whole system
- Simultaneous pressurisation speed of the whole system

Mounted on Control Valve

- Models 7870 and 7871: black identification washer
- Protection of individual circuits
- Mounted on the control valve, it optimises the pressurisation speed of a specific cylinder

Applications

Pneumatic Systems
Robotics
Textile
Semi-Conductors
Packaging
Pneumatics

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	3 to 10 bar
Working Temperature	-15°C to +60°C

Max. Tightening Torques	Threads	daN.m
	G1/4 G3/8 G1/2	1.3 1.5 1.8

Flow Characteristics	Model	Flow at 6 bar	Kv
	7860 08 13	1500 Nl/min	0.80
	7860 10 13	2100 Nl/min	1.20
	7860 10 17	2200 Nl/min	1.30
	7860 12 17	3100 Nl/min	1.00
	7860 12 21	3100 Nl/min	1.00
	7861 13 13	2100 Nl/min	1.20
	7861 17 17	3100 Nl/min	1.00
	7861 21 21	3100 Nl/min	1.00
	7870 08 13	1500 Nl/min	0.80
	7870 10 13	2000 Nl/min	1.15
	7870 10 17	2000 Nl/min	1.15
	7871 13 13	2000 Nl/min	1.15
	7871 17 17	2000 Nl/min	1.15

Component Materials

Internal seal: NBR

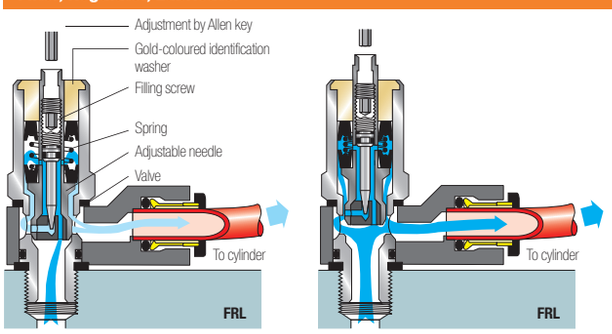
Silicone-free

Regulations

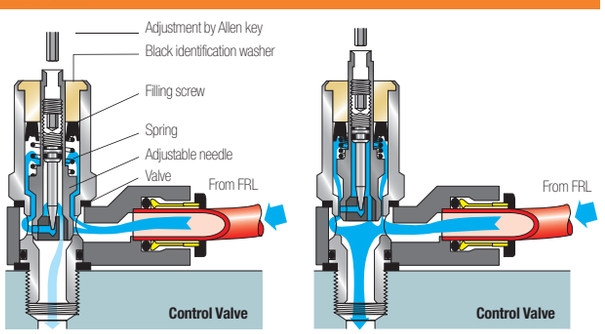
DI: 2002/95/CE (RoHS)
RG: 1907/2006 (REACH)
DI: 97/23/CE (PED)

Operation

Filter, Regulator, Lubricator



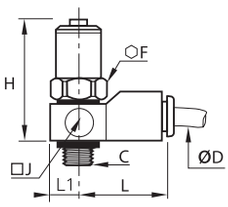
Control Valve



Soft Start Fittings

7860 Soft Start Fitting for Isolating Valve, Male BSPP Thread

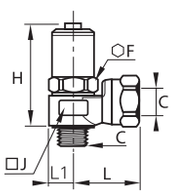
Technical polymer, nickel-plated brass, NBR



ØD	C		F	H min	H max	J	L	L1	Kg
8	G1/4	7860 08 13	17	54	61	20	35	10	0.064
10	G1/4	7860 10 13	22	55	62	25	41	12.5	0.112
	G3/8	7860 10 17	22	55	62	25	41	12.5	0.115
12	G3/8	7860 12 17	22	55	62	25	45	12.5	0.125
	G1/2	7860 12 21	22	63.5	70.5	25	45	12.5	0.152

7861 Soft Start Fitting for Isolating Valve, Male/Female BSPP Thread

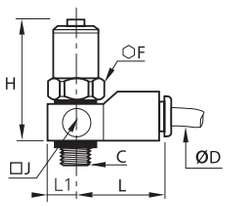
Nickel-plated brass, NBR, technical polymer



C		F	H min	H max	J	L	L1	Kg
G1/4	7861 13 13	22	54	62	24	31	12	0.147
G3/8	7861 17 17	22	55	62	24	31	12	0.139

7870 Soft Start Fitting for Control Valve, Male BSPP Thread

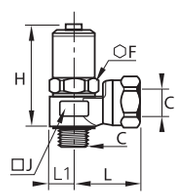
Technical polymer, nickel-plated brass, NBR



ØD	C		F	H min	H max	J	L	L1	Kg
8	G1/4	7870 08 13	17	54	61	20	35	10	0.066
10	G1/4	7870 10 13	22	55	62	25	41	12.5	0.113
	G3/8	7870 10 17	22	55	62	25	41	12.5	0.116

7871 Soft Start Fitting for Control Valve, Male/Female BSPP Thread

Nickel-plated brass, NBR, technical polymer



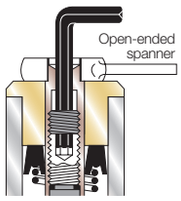
C		F	H min	H max	J	L	L1	Kg
G1/4	7871 13 13	22	55	62	24	31	12	0.149
G3/8	7871 17 17	22	55	62	24	31	12	0.141

Adjustment of the Filling Screw

Adjusting the screw to regulate the flow of air optimises the time taken to pressurise depending on the air volume to be refilled and the system requirements.

To adjust:
– immobilise the piston using a spanner
– adjust the screw with an Allen key
- 1.5 mm key for 8 mm diameter
- 2.5 mm key for 10 and 12 mm diameter

Max. tightening torque: 0.1 daN.m



Cylinder Pressure Cycle

When the downstream pressure reaches 2/3 of the supply pressure, full flow is automatically established