

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	1.3
G3/8	1.5	
G1/2	1.8	

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

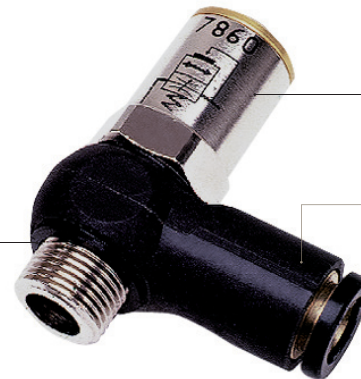
Component Materials

Internal seal: NBR

Adjustment screw: nickel-plated brass

Washer: technical polymer

Body: technical polymer or nickel-plated brass



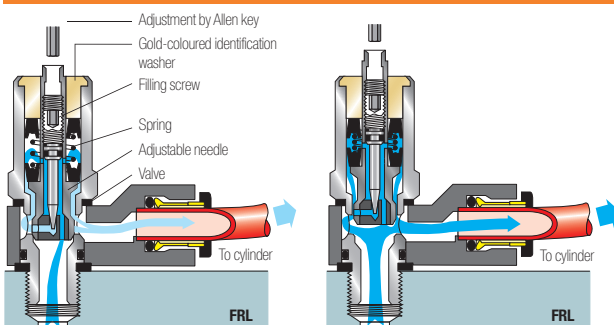
Silicone-free

Regulations

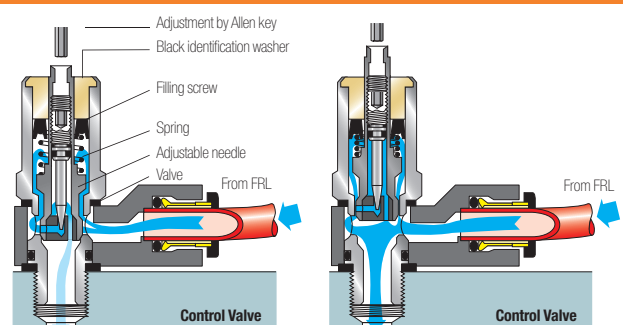
- DI: 2002/95/CE (RoHS)
- RG: 1907/2006 (REACH)
- DI: 97/23/CE (PED)

Operation

Filter, Regulator, Lubricator


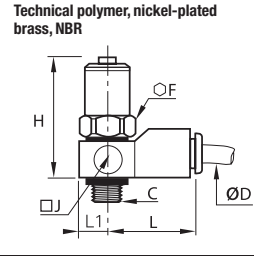







Control Valve


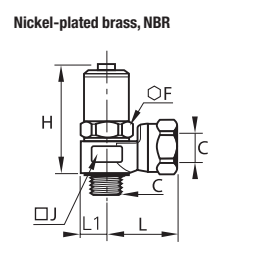




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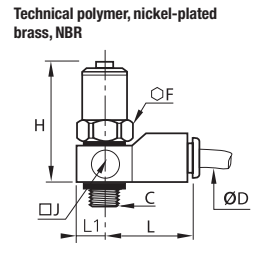



7860 Soft Start Fitting for Isolating Valve, Male BSPP Thread

		Technical polymer, nickel-plated brass, NBR	ØD	C		F	H _{min}	H _{max}	J	L	L1	kg
			8	G1/4		17	54	61	20	35	10	0.064
			10	G1/4		22	55	62	25	41	12.5	0.112
				G3/8		22	55	62	25	41	12.5	0.115
			12	G3/8		22	55	62	25	45	12.5	0.125
G1/2		22		63.5	70.5	25	45	12.5	0.152			


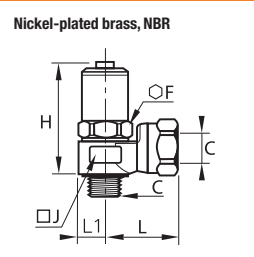


7861 Soft Start Fitting for Isolating Valve, Male/Female BSPP Thread

		Nickel-plated brass, NBR	C		F	H _{min}	H _{max}	J	L	L1	kg
			G1/4		22	54	62	24	31	12	0.147
			G3/8		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		17	54	61	20	35	10	0.066
			10	G1/4		22	55	62	25	41	12.5	0.114
				G3/8		22	55	62	25	41	12.5	0.117

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

		Nickel-plated brass, NBR	C		F	H _{min}	H _{max}	J	L	L1	kg
			G1/4		22	55	62	24	31	12	0.148
			G3/8		22	55	62	24	31	12	0.141

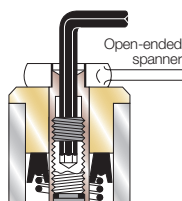
Adjustment of the Filling Screw

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

