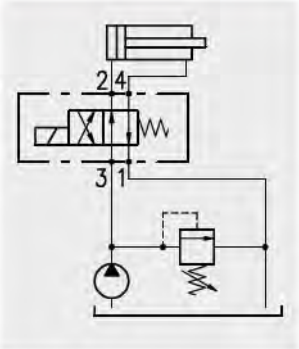
Operation

When the solenoid is deenergized the valve allows free oil flow from 3 to 2 and from 4 to 1.
When the solenoid is energized the valve allows free oil flow from 3 to 4 and from 2 to 1.



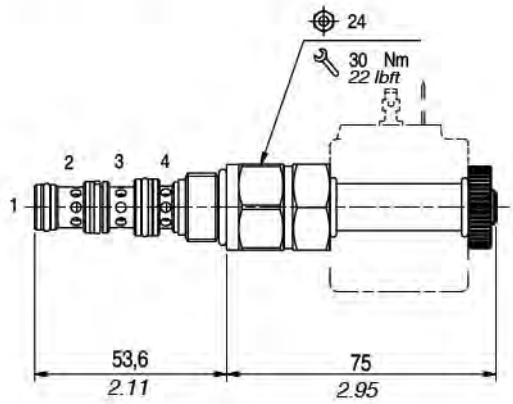
Performance

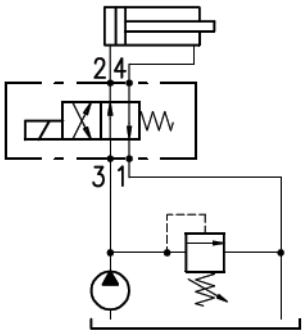
Cartridges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from 1 to 2	Weight		Cavities and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
ER08M/1	18	*4.7*	210	*3050*	BE/EC 36 see page 157	40 cm³/min. - *2.44 in³/mm* at 210 bar - *3050 psi*	0,200	*0.44*	see cavity SAE 8-4 page 173
ER10A/1	30	*8*			BIN 19 see page 158	100 cm³/min. - *6.10 in³/mm* at 210 bar - *3050 psi*	0,380	*0.84*	see cavity SAE 10-4 page 173
ER10B/1	20	*5.3*			BC 16 see page 160	30 cm³/min. - *1.83 in³/mm* at 210 bar - *3050 psi*	0,310	*0.68*	
ER10M/1	40	*10.5*			BC 16 see page 160	80 cm³/min. - *4.88 in³/mm* at 210 bar - *3050 psi*	0,45	*0.99*	
ER12A/1					BIN 22 see page 159	200 cm³/min. - *12.20 in³/mm* at 210 bar - *3050 psi*	0,49	*1.08*	see cavity SAE 12-4 page 173

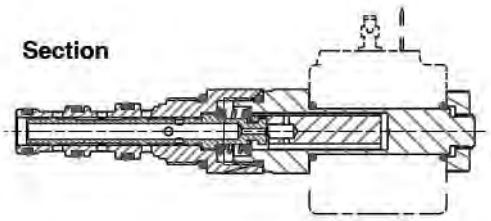
*with oil viscosity of 46 cst

Dimensions and hydraulic circuit



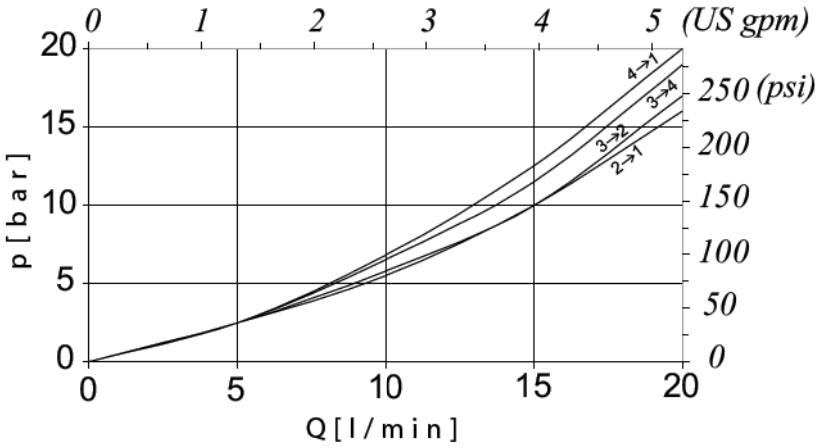


Section



Rating diagrams

Typical pressure drop vs. flow characteristics



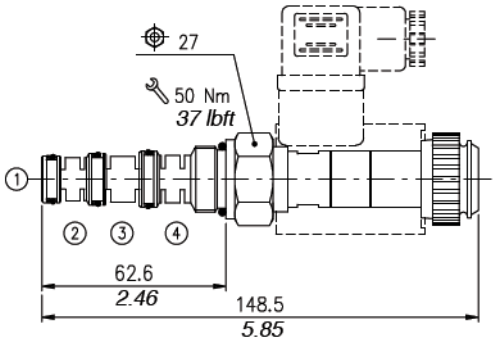
Order code

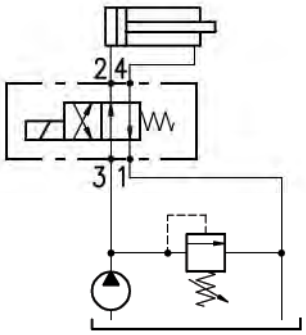
ER 08M / 10 N □

Seals

B) Buna
V) Viton

Dimensions and hydraulic circuit





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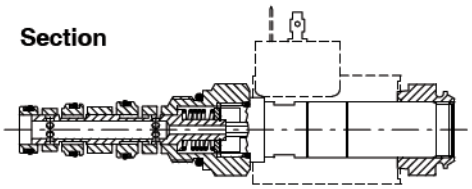
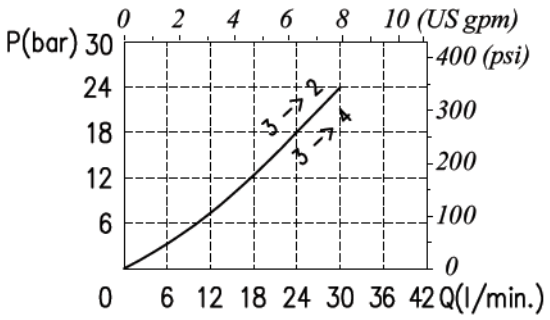
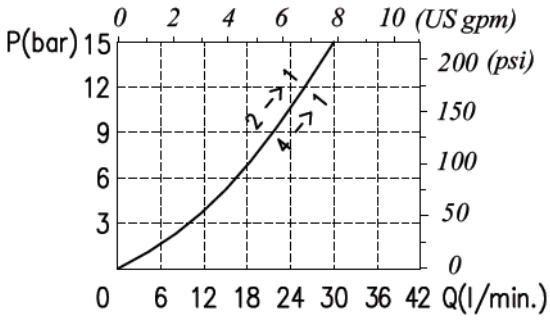


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



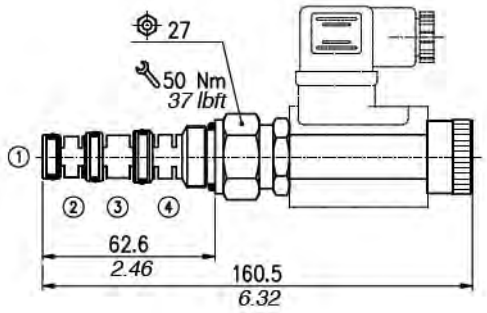
Order code

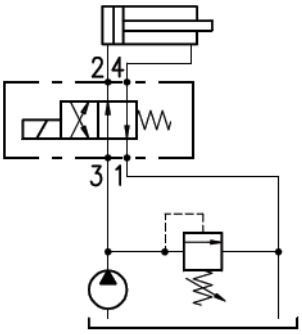
ER 10A / 10 P □

Seals

B) Buna
V) Viton

Dimensions and hydraulic circuit





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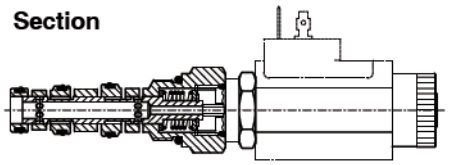
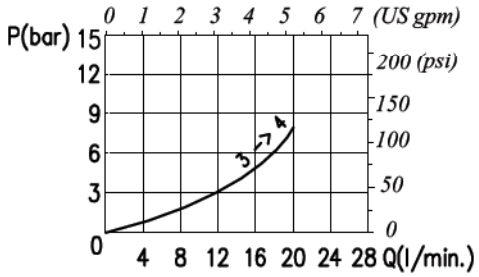
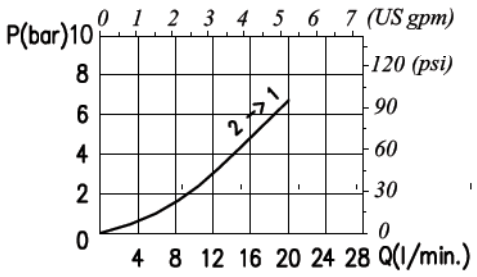
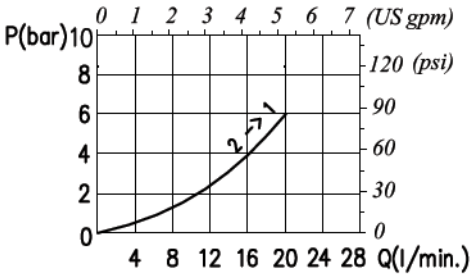


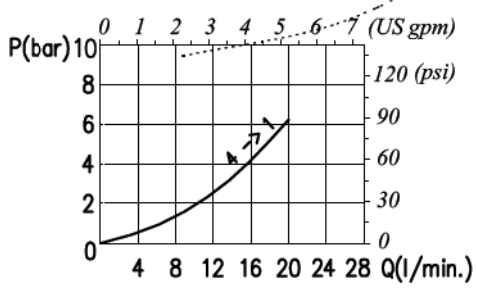
Rating diagrams

Typical pressure drop vs. flow characteristics









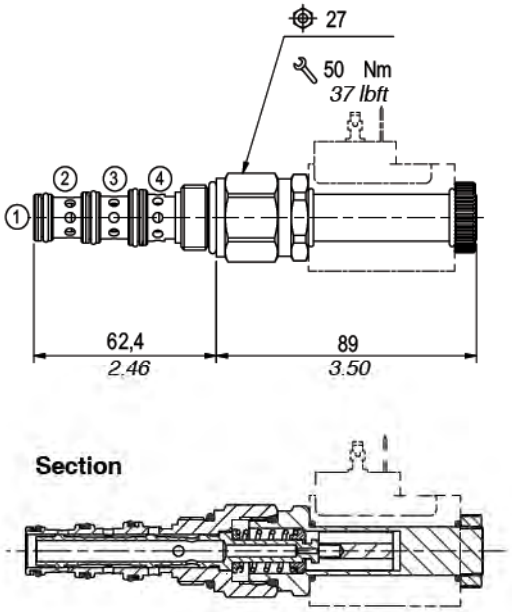
Order code

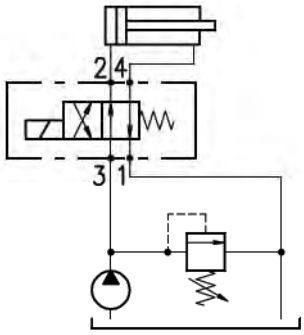
ER 10B / 10 □ - □

Manual override option
(see page 163)
N) No emergency (standard)
P) Button

Seals
B) Buna
V) Viton

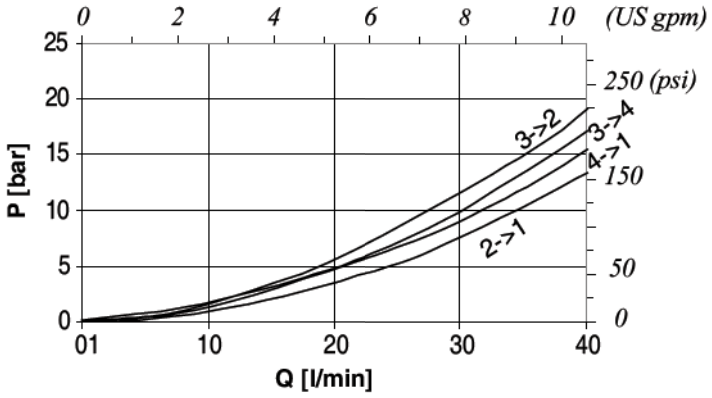
Dimensions and hydraulic circuit





Rating diagrams

Typical pressure drop vs. flow characteristics



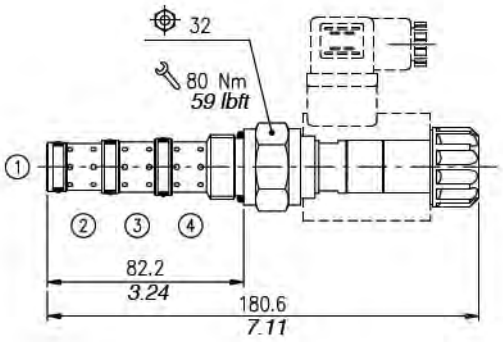
Order code

ER 10M / 10 □ □

Manual override option
(see page 163)
N) No emergency (standard)
T) Screw
F) Pull button

Seals
B) Buna
V) Viton

Dimensions and hydraulic circuit



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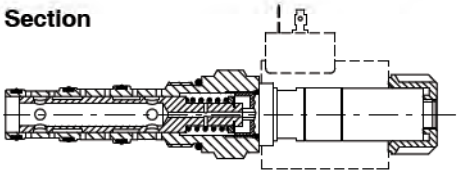
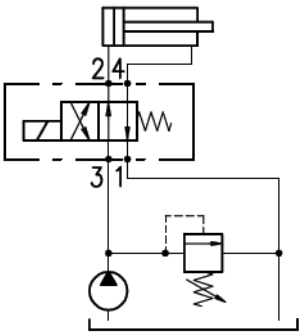
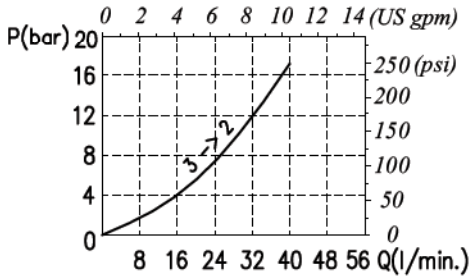
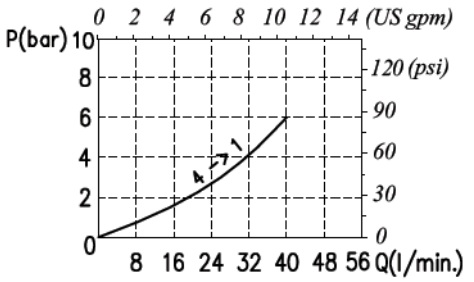


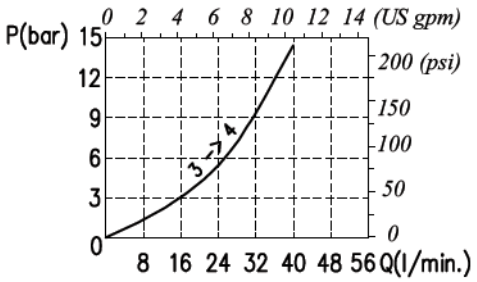


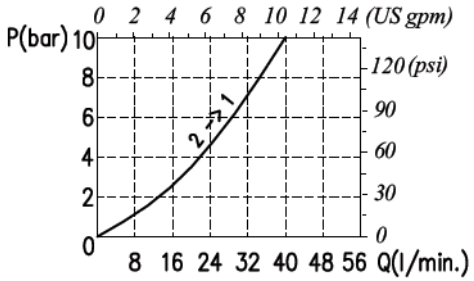
Rating diagrams

Typical pressure drop vs. flow characteristics









Order code

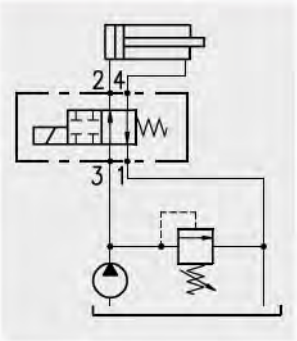
ER 12A / 10 P □

Seals

B) Buna
V) Viton

Operation

When the spool is deenergized the valve allows free oil flow from 3 to 2 and from 4 to 1.
When the solenoid is energized all ways are sealed.



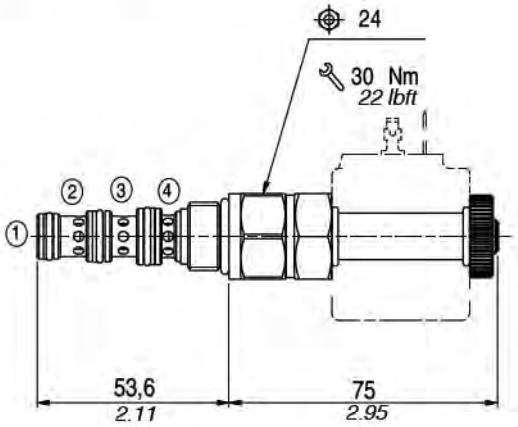
Performance

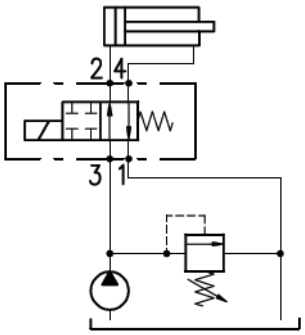
Cartridges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from 1 to 2	weight		Cavities and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
ER08M/2	20	*5.3*	210	*3050*	BE/EC 36 see page 157	40 cm³/min. - *2.44 in³/min* at 210 bar - *3050 psi*	0,200	*0.44*	see cavity SAE 8-4 page 173
ER10M/2	45	*12*			BC 16 see page 160	80 cm³/min. - *4.88 in³/min* at 210 bar - *3050 psi*	0,45	*0.99*	see cavity SAE 10-4 page 173
ER12A/2	40	*10.5*			BIN 22 see page 159	200 cm³/min. - *12.2 in³/min* at 210 bar - *3050 psi*	0,490	*1.08*	see cavity SAE 12-4 page 173
ER10B/2	20	*5.3*			BC 16 see page 160	30 cm³/min. - *1.83 in³/min* at 210 bar - *3050 psi*	0,310	*0.68*	see cavity SAE 10-4 page 173

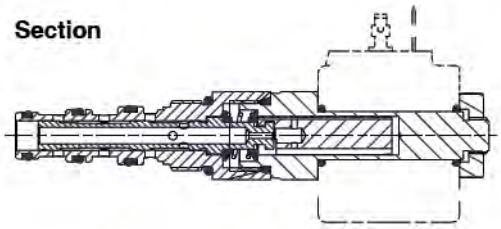
*with oil viscosity of 46 cst

Dimensions and hydraulic circuit



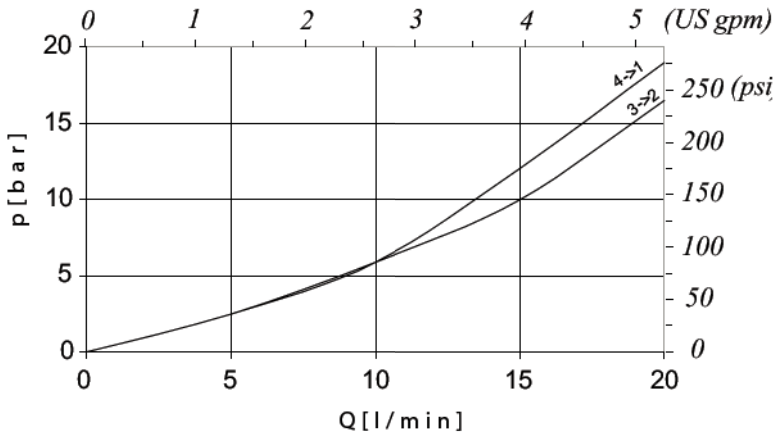


Section



Rating diagrams

Typical pressure drop vs. flow characteristics



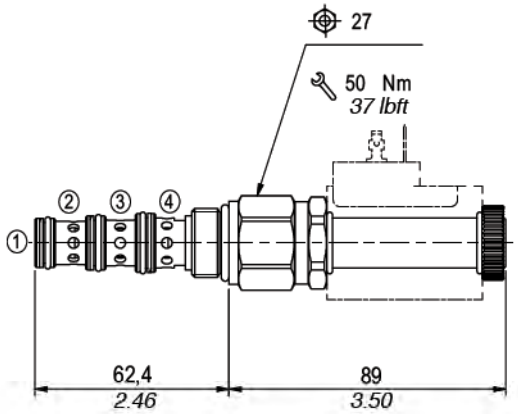
Order code

ER 08M / 20 N □

Seals

B) Buna
V) Viton

Dimensions and hydraulic circuit



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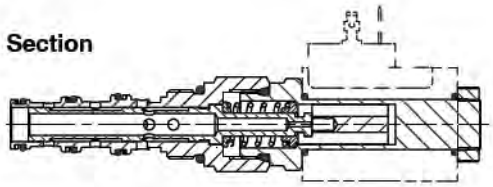
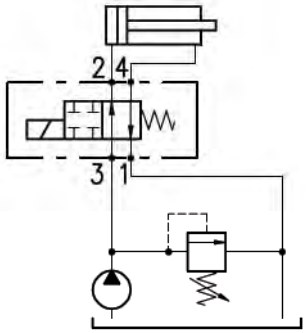
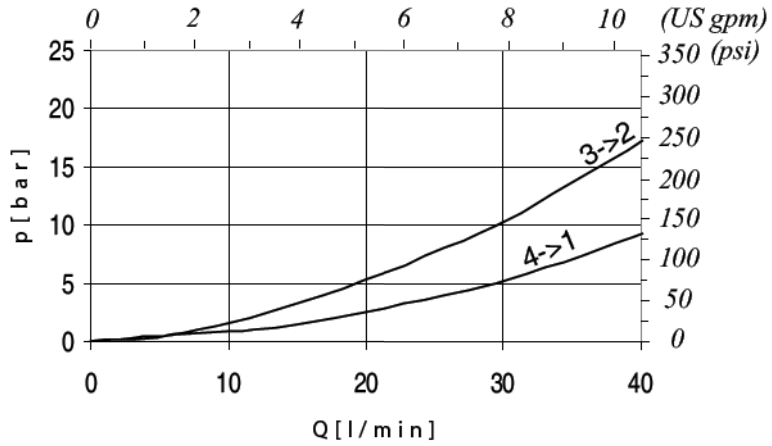




Rating diagrams

Typical pressure drop vs. flow characteristics



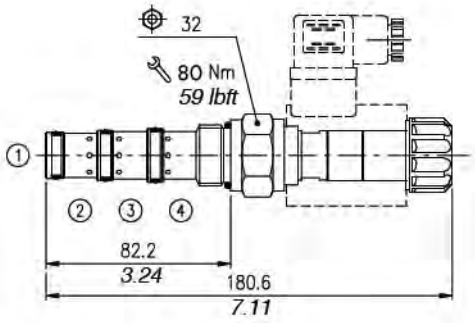
Order code

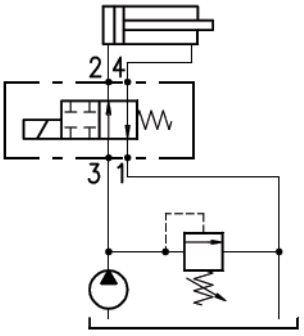
ER 10M / 20 □ □

Manual override option
(see page 163)
N) No emergency (standard)
T) Screw
F) Pull button

Seals
B) Buna
V) Viton

Dimensions and hydraulic circuit





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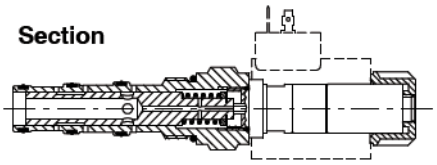


Rating diagrams

For rating diagrams please ask
our technical office

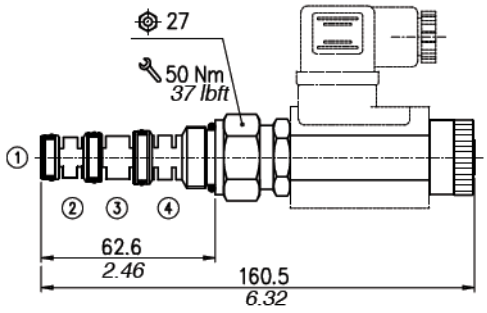
Order code

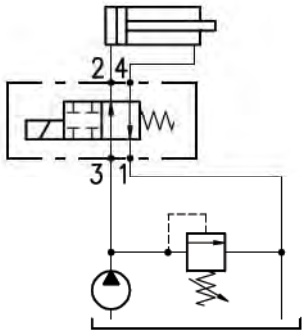
ER 12A / 20 P □

Seals

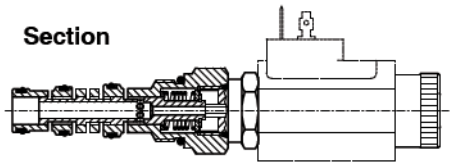
B) Buna
V) Viton

Dimensions and hydraulic circuit



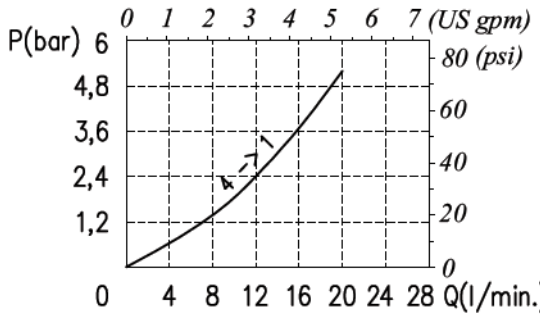


Section

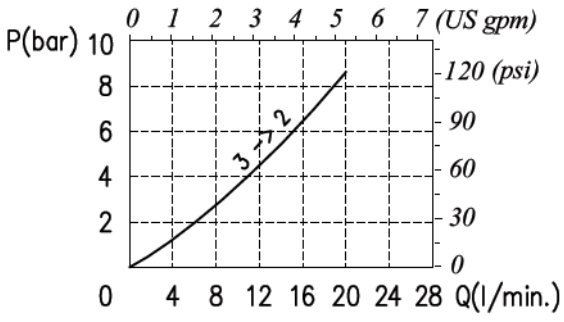


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

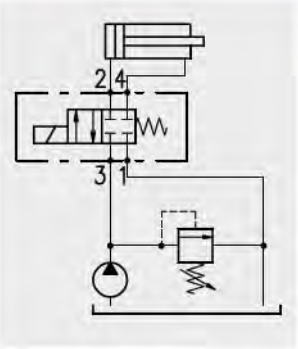
ER 10B / 20 □ - □

Manual override option
(see page 163)
N) No emergency (standard)
P) Button

Seals
B) Buna
V) Viton

Operation

When the spool is deenergized the valve keeps all ways shut.
When the solenoid is energized the valve allows free oil flow from 3 to 2 and from 4 to 1.



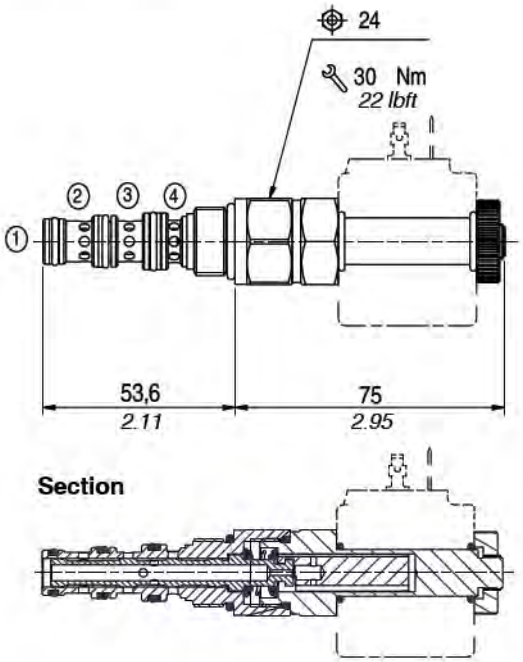
Performance

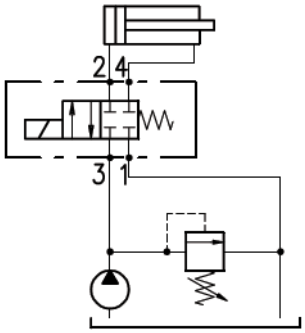
Cartidges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from 1 to 2	Weight		Cavities and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
ER08M/3	18	*4.7*	210	*3050*	BE/EC 36 see page 157	40 cm³/min. - *2.44 in³/min* at 210 bar - *3050 psi*	0,200	*0.44*	see cavity SAE 8-4 page 173
ER10M/3	40	*10.5*			BC 16 see page 160	80 cm³/min. - *4.88 in³/min* at 210 bar - *3050 psi*	0,45	*0.99*	see cavity SAE 10-4 page 173
ER12A/3	40	*10.5*			BIN 22 see page 159	200 cm³/min. - *12.2 in³/min* at 210 bar - *3050 psi*	0,490	*1.08*	see cavity SAE 12-4 page 173
ER10B/3	20	*5.3*			BC 16 see page 160	20 cm³/min. - *1.22 in³/min* at 210 bar - *3050 psi*	0,310	*0.68*	see cavity SAE 10-4 page 173

*with oil viscosity of 46 cst

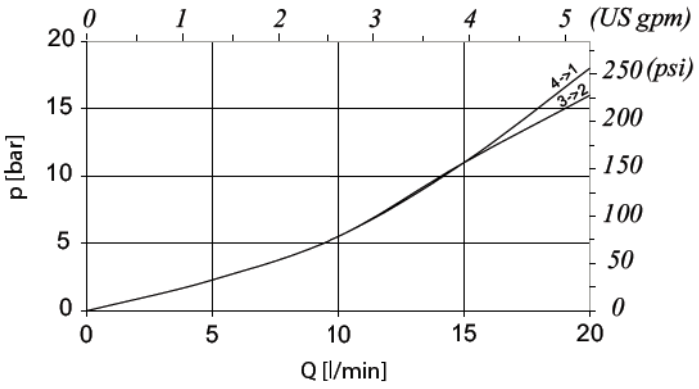
Dimensions and hydraulic circuit





Rating diagrams

Typical pressure drop vs. flow characteristics



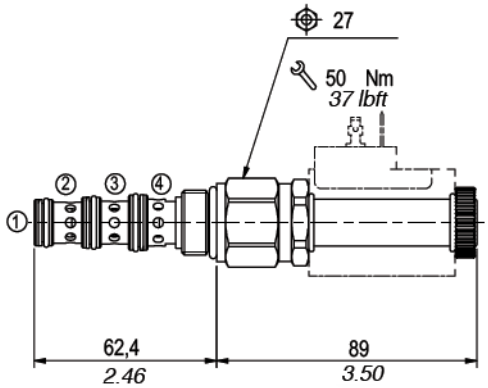
Order code

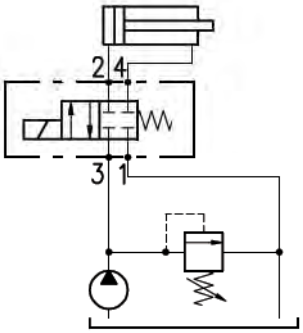
ER 08M / 30 N □

Seals

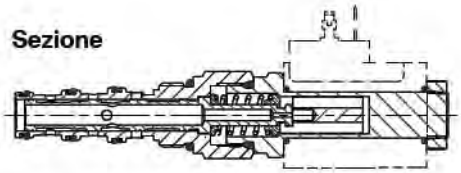
B) Buna
V) Viton

Dimensions and hydraulic circuit



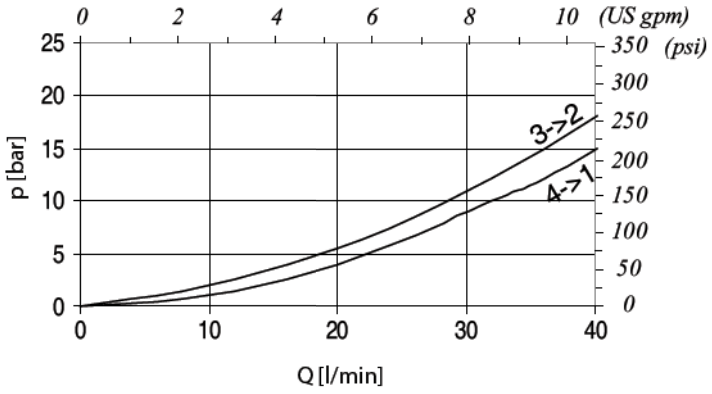


Sezione



Rating diagrams

Typical pressure drop vs. flow characteristics



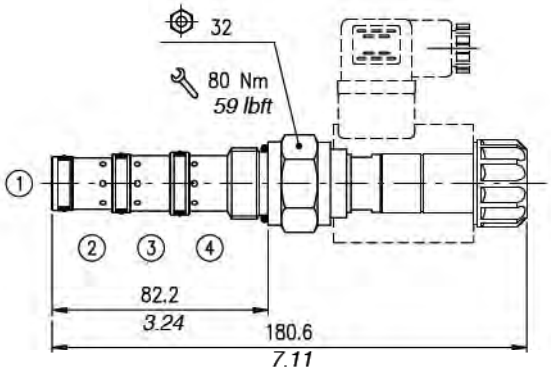
Order code

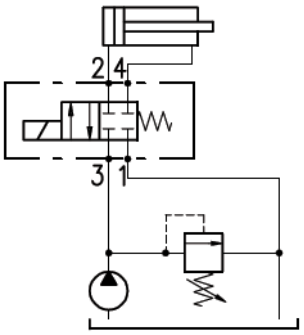
ER 10M / 30 □ □

Manual override option
(see page 163)
N) No emergency (standard)
T) Button
F) Screw

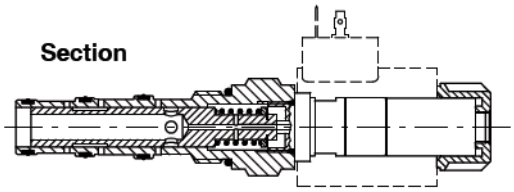
Seals
B) Buna
V) Viton

Dimensions and hydraulic circuit



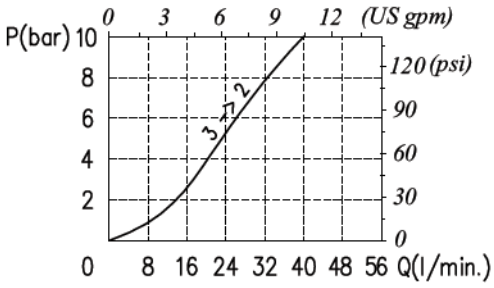


Section

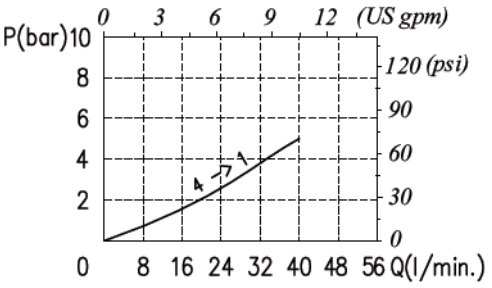


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



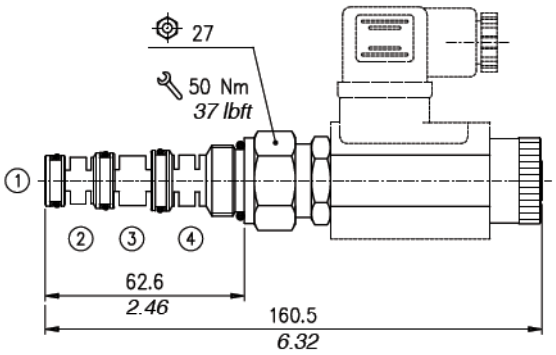
Order code

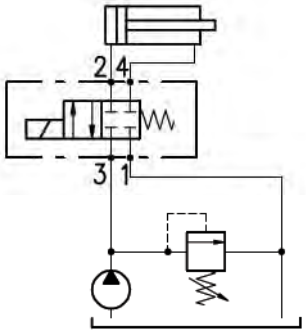
ER 12A / 30 P □

Seals

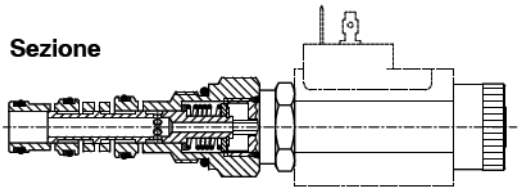
B) Buna
V) Viton

Dimensions and hydraulic circuit



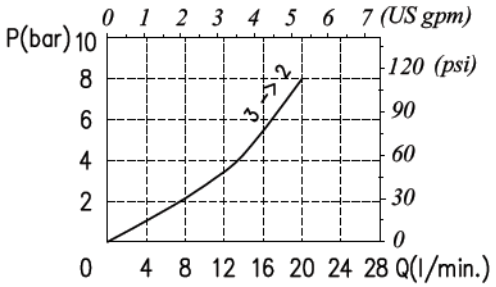


Sezione

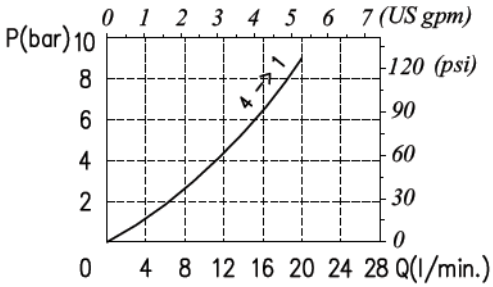


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

ER 10B / 30 □ - □

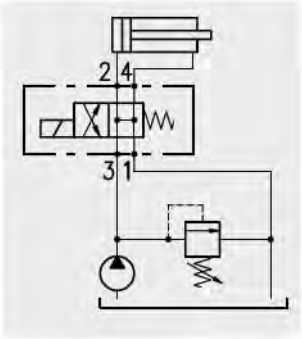
Manual override option
(see page 163)
N) No emergency (standard)
P) Button

Seals
B) Buna
V) Viton

Type ER..A/4, ER..B/4 and ER..M/4

Operation

Electric valve 4 ways, 2 positions, spool type.
When the spool is deenergized the valve provides for concurrent connection of all ways with each other.
When the solenoid is energized the valve allows free oil flow from 3 to 4 and from 2 to 1.



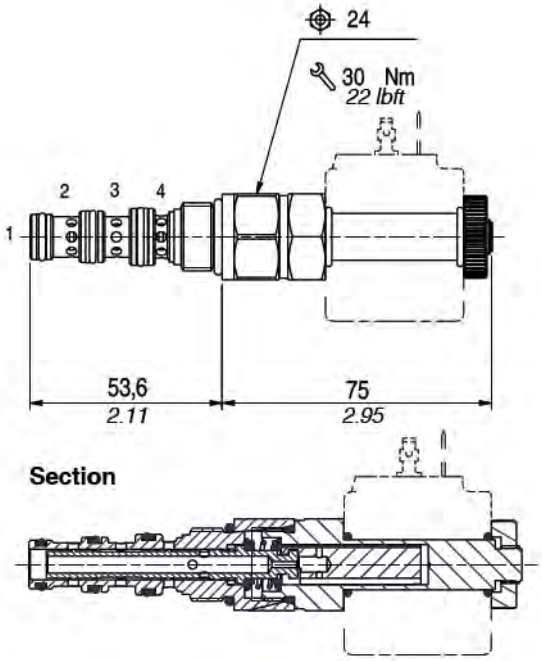
Performance

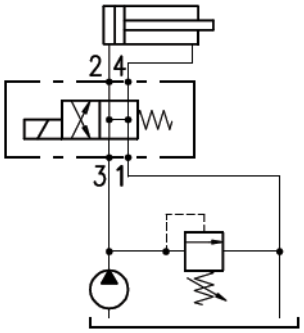
Cartridges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from 1 to 2	Weight		Cavities and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
ER08M/4	18	*4.7*	210	*3050*	BE/EC 36 see page 157	40 cm³/min. - *2.44 in³/min* at 210 bar - *3050 psi*	0,200	*0.44*	see cavity SAE 8-4 page 173
ER10M/4	40	*10.5*			BC 16 see page 160	80 cm³/min. - *4.88 in³/min* at 210 bar - *3050 psi*	0,45	*0.99*	see cavity SAE 10-4 page 173
ER10B/4	20	*5.3*			BC 16 see page 160	30 cm³/min. - *1.92 in³/min* at 210 bar - *3050 psi*	0,310	*0.68*	see cavity SAE 10-4 page 173
ER12A/4	40	*10.5*			BIN 22 see page 159	200 cm³/min. - *12.2 in³/min* at 210 bar - *3050 psi*	0,490	*1.08*	see cavity SAE 12-4 page 173

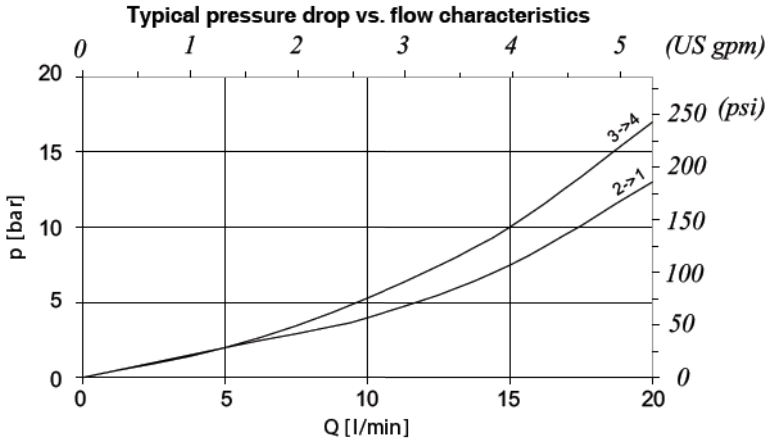
*with oil viscosity of 46 cst

Dimensions and hydraulic circuit





Rating diagrams



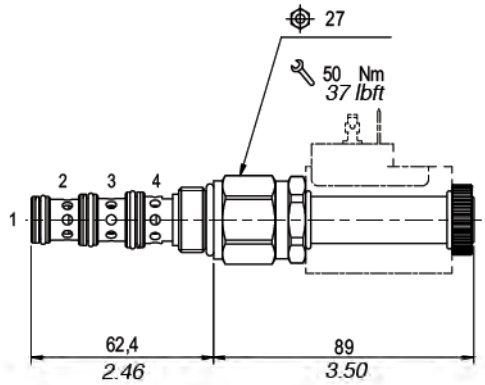
Order code

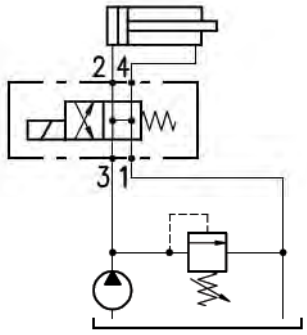
ER 08M / 40 N □

Seals

B) Buna
V) Viton

Dimensions and hydraulic circuit





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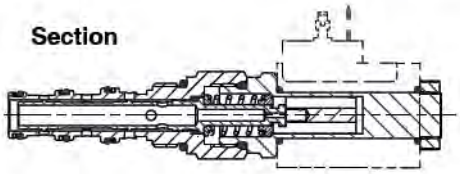
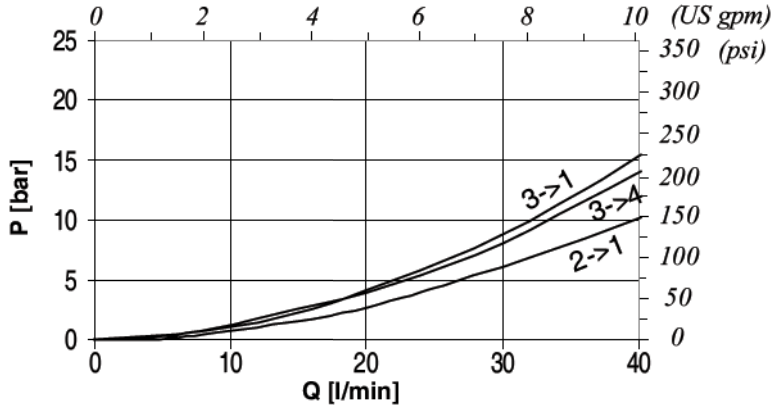


Rating diagrams

Typical pressure drop vs. flow characteristics



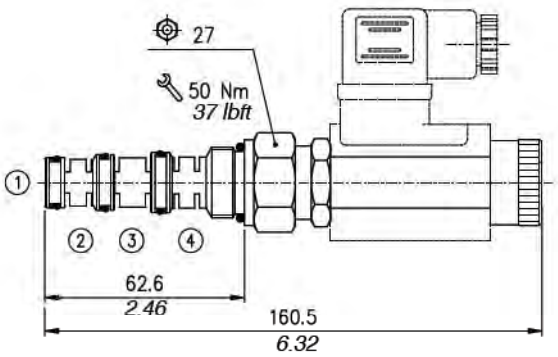
Order code

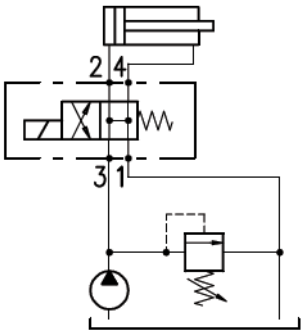
ER 10M / 40 □ □

Manual override option
(see page 163)
N) No emergency (standard)
T) Screw
F) Pull button

Seals
B) Buna
V) Viton

Dimensions and hydraulic circuit





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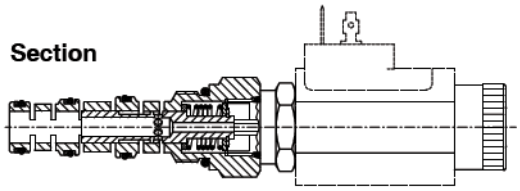
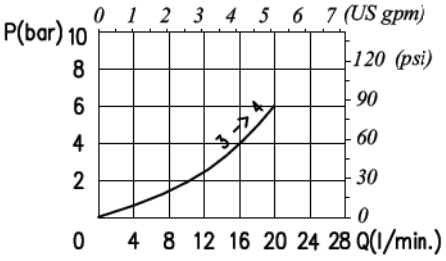
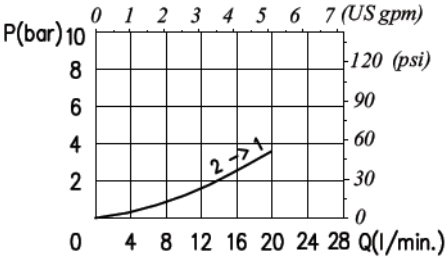


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

ER 10B / 40 □ - □

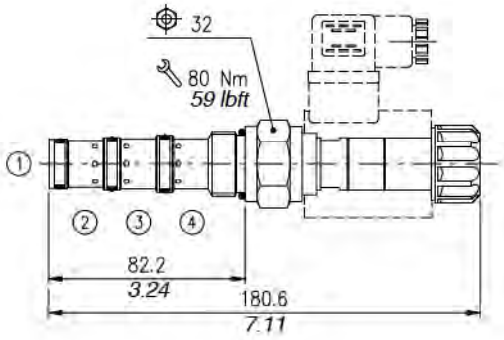
Manual override option
(see page 163)

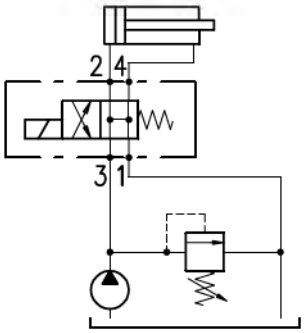
N) No emergency (standard)
P) Button

Seals

B) Buna
V) Viton

Dimensions and hydraulic circuit





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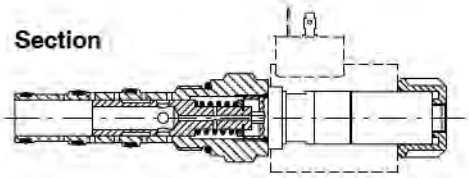
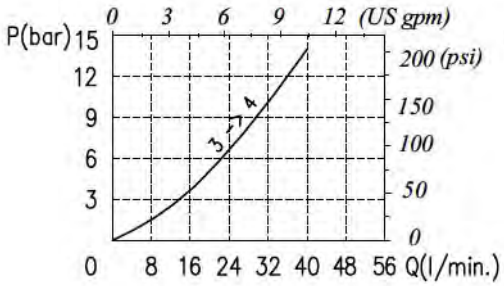
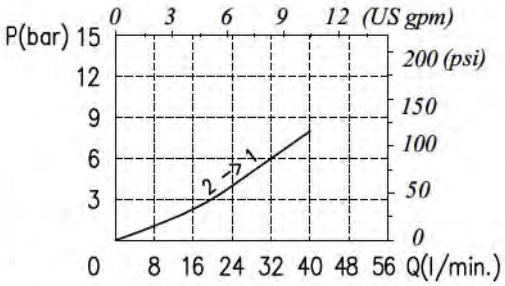


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

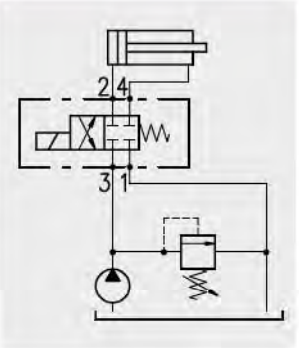
ER 12A / 40 P □

Seals

B) Buna
V) Viton

Operation

When the spool is deenergized the valve keeps all ways shut.
When the solenoid is energized the valve allows free oil flow from 3 to 4 and from 2 to 1.



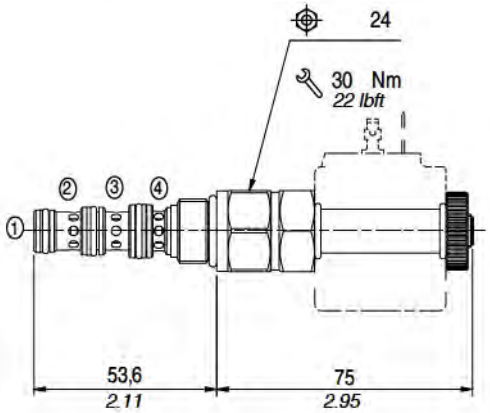
Performance

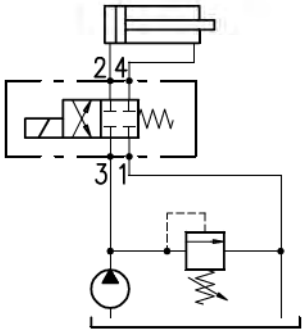
Cartridges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from 1 to 2	Weight		Cavity and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
ER08M/5	18	*4.7*	210	*3050*	BE/EC 36 see page 157	40 cm³/min. - *2.44 in³/min* at 210 bar - *3050 psi*	0,200	*0.44*	see cavity SAE 8-4 page 173
ER10M/5	40	*10.5*			BC 16 see page 160	80 cm³/min. - *4.88 in³/min* at 210 bar - *3050 psi*	0,45	*0.99*	see cavity SAE 10-4 page 173
ER10A/5	30	*8*			BIN 19 see page 158	30 cm³/min. - *1.92 in³/min* at 210 bar - *3050 psi*	0,380	*0.84*	
ER12A/5	40	*10.5*			BIN 22 see page 159	30 cm³/min. - *1.92 in³/min* at 210 bar - *3050 psi*	0,490	*1.08*	see cavity SAE 12-4 page 173

*with oil viscosity of 46 cst

Dimensions and hydraulic circuit





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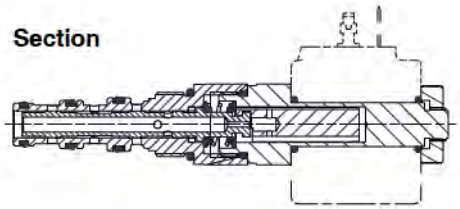
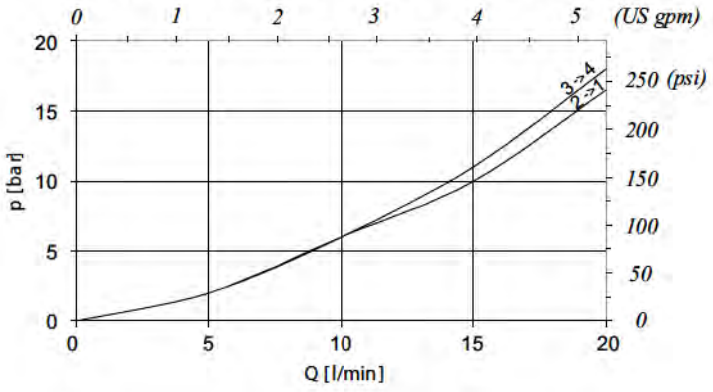


Rating diagrams

Typical pressure drop vs. flow characteristics



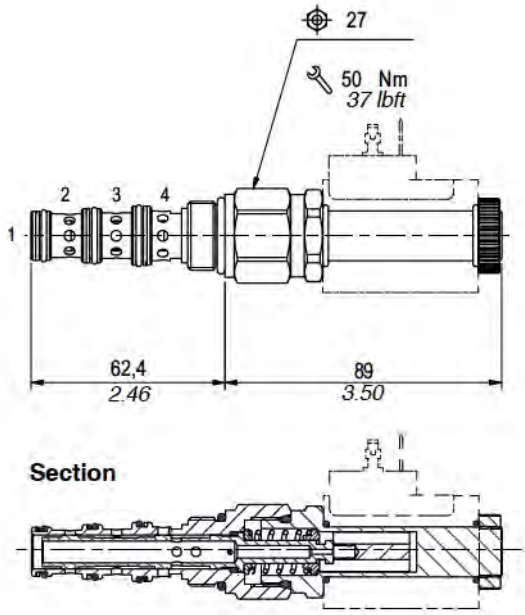
Order code

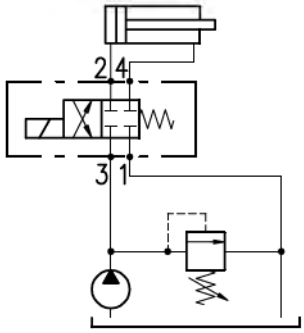
ER 08M / 50 N □

Seals

B) Buna
V) Viton

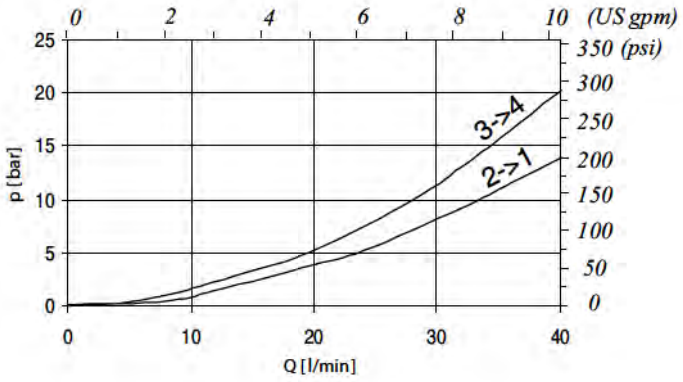
Dimensions and hydraulic circuit





Rating diagrams

Typical pressure drop vs. flow characteristics



Order code

ER 10M / 50 □ □

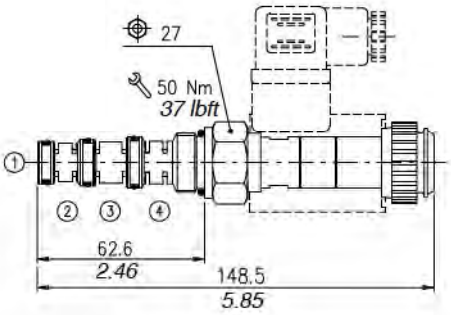
Manual override option
(see page 163)

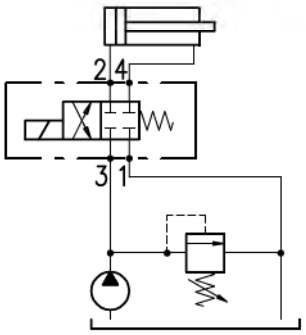
N) No emergency (standard)
T) Screw
F) Pull button

Seals

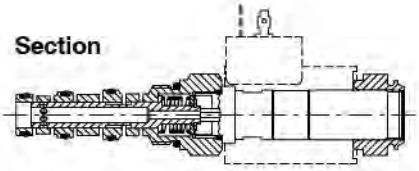
B) Buna
V) Viton

Dimensions and hydraulic circuit



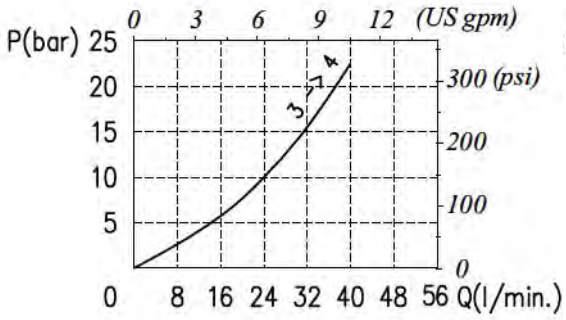


Section

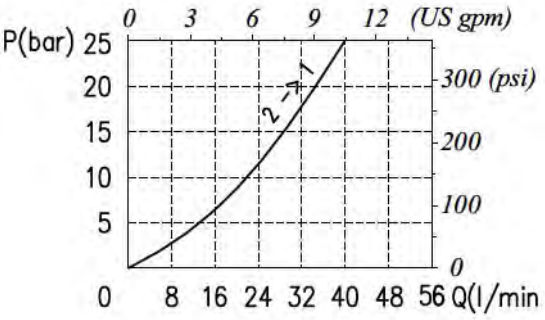


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



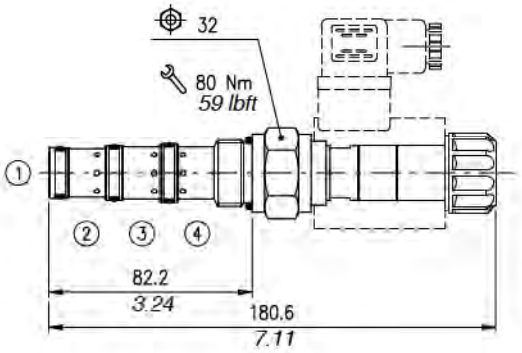
Order code

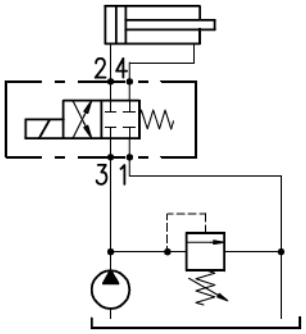
ER 10A / 50 P □

Seals

B) Buna
V) Viton

Dimensions and hydraulic circuit





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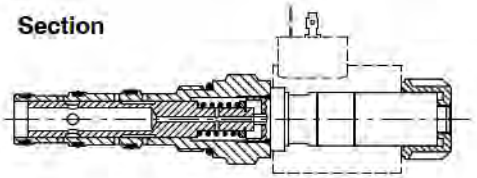
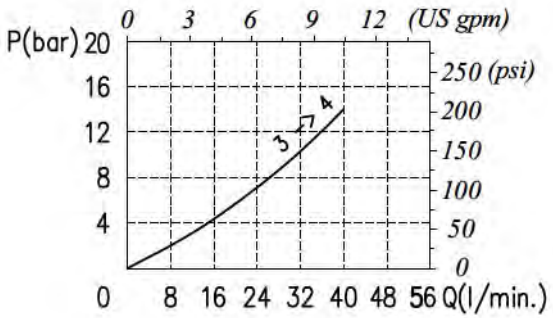
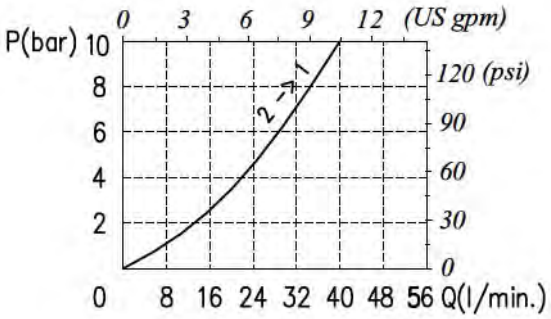


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

ER 12A / 50 P □

Seals

B) Buna
V) Viton