

### Extracted from RA 27 510/06.98

Page 1 of 1 See Section 16 for applicable Issue: 01.01 Preferred/Spotlight part numbers

and unit price.

# Double throttle/check valve Model Z 2 FSK 6

Size 6

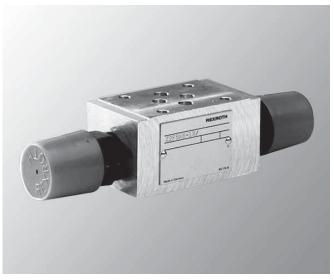
Series 1X

Maximum operating pressure 210 bar (3000 PSI) Maximum flow 40 L/min (10.5 GPM)

- Mounting pattern to ISO 4401-3, NFPA T3.5. MR1, and ANSI B 93.7 D 03
- Sandwich plate design
- Adjustment type:

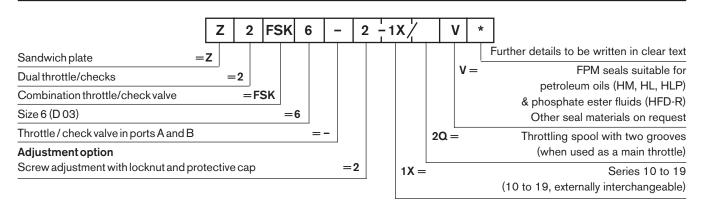
Screw adjustment with protective cap

- For throttling the flow to 2 actuator ports, example: control speed of an actuator in both directions
- For meter-in or meter-out control as required
  - · O-ring plate included



Model Z 2 FSK 6 - 2-1X/2QV

### Ordering code



Note: Model Z 2 FS 6-..-4X/.. uses the same adjustment mechanism on both sides (A and B).

Operating pressure	bar (PSI)	210 (3050)
Maximum flow	L/min (GPM)	40 (10.5)
Weight (approx.)	kg (lbs.)	0.5 (1.1)



### Extracted from RA 27 506/06.98

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See Section 16 for applicable Preferred/Spotlight part numbers and unit price.

# Double throttle/check valve Model Z 2 FS 6

Size 6

Series 4X

Maximum operating pressure 315 bar (4600 PSI) Maximum flow 80 L/min (21 GPM)

- Throttle valve with reverse free flow check valves
- Sandwich plate design for use in vertical stacking assemblies
- Used to reduce flow in actuator lines, example: control speed of the actuator in both directions
- Meter-in or meter-out control as required
  - O-ring plate included
- Porting pattern to ISO 4401-3, NFPA T3.4.1 MR1, and ANSI B 93.7 D 03



Model Z 2 FS 6 - 2-4X/...

# Ordering code

	Z	2	FS	6	5		-42	x /	,	V	*	
Sandwich plate =	Z											Further details to be written in clear text
Dual throttle/checks		=2								۷	′=	FPM seals suitable for
Combination throttle/check valve		=	FS									petroleum oils (HM, HL, HLP) & phosphate ester fluids (HFD-R)
Size 6 (D 03)				=6								Other seal materials on request
Throttle / check valve in ports A and B					=-				1Q =	=		Throttling spool with one groove
Throttle/check valve in port A					=A							(when used as a pilot choke)
Throttle/check valve in port B					=B				2Q =	=		Throttling spool with two grooves
Adjustment option												(when used as a main throttle)
Screw adjustment with locknut and pro	otectiv	e cap	)			=2		4X =				Series 40 to 49
												(40 to 49, externally interchangeable)

Note: Model Z 2 FS 6-..-4X/.. uses the same adjustment mechanism on both sides (A and B).

Operating pressure	bar (PSI)	315 (4600)
Maximum flow	L/min (GPM)	80 (21.1)
Weight (approx.)	kg (lbs.)	0.8 (1.8)



### Extracted from RA 27 524/06.98

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See Section 16 for applicable Preferred/Spotlight part numbers

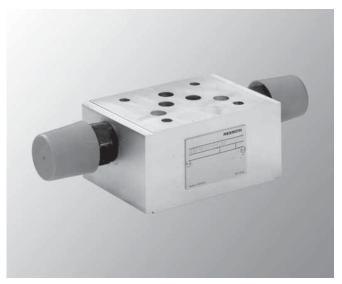
and unit price.

# Double throttle/check valve Model Z 2 FSK 10

Size 10 Series 1X

Maximum operating pressure 210 bar (3050 PSI) Maximum flow 80 L/miin (21 GPM)

- Mounting pattern to ISO 4401-5, NFPA T3.5. MR1, and ANSI B 93.7 D 05
- Sandwich plate design
- For throttling the flow to 2 actuator ports, example: control speed of an actuator in both directions
- Adjustment type: Screw adjustment with protective cap
- For meter-in or meter-out control as required
  - · O-ring plate included



Model Z2FSK10-2-1X/2QV

# Ordering code

	Z	2	FS	K 1	0	-	2	- 12	<b>x</b> /		٧	*	
Sandwich plate =	z												Further details to be written in clear text
Dual throttle/checks		=2										<b>V</b> =	NBR seals suitable for petroleum oils (HM, HL, HLP)
Combination throttle/check valve		=1	FSK										& phosphate ester fluids (HFD-R)
Size 6 (D 03)			=	10						20	่ ว=		Throttling spool with two grooves
Throttle / check valve in ports A and B					=-								(when used as a main throttle)
Adjustment option									1X =	=			Series 10 to 19
Screw adjustment with locknut and pro	tectiv	ve cap	)			=	2						(10 to 19, externally interchangeable)

**Note:** For model Z 2 FS 10-..-3X/.. the same adjustment option is used on sides A and B.

Operating pressure	PSI	3050
Maximum flow	GPM	21
Weight (approx.)	lbs	2.6



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See Section 16 for applicable Preferred/Spotlight part numbers and unit price.

# Double throttle/check valve Model Z 2 FS 10

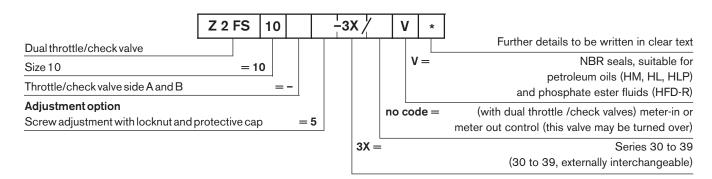
Size 10 Series 3X

Maximum operating pressure 210 bar (3050 PSI) Maximum flow 120 L/min (32 GPM)

- Mounting pattern to ISO 4401-5, NFPA T3.5. MR1, and ANSI B 93.7 D 05
- Sandwich plate design
- For throttling the flow to 2 actuator ports, example: control speed of an actuator in both directions
- Adjustment type: Screw adjustment with protective cap
- For meter-in or meter-out control as required
  - · O-ring plate included



### Ordering code



Flow direction		The same for both valves; throttle in one direction, reverse free flow across check valve in the other
Operating pressure	bar (PSI)	315 (4600)
Maximum flow	L/min (GPM)	120 (32)
Weight (approx.)	kg (lbs.)	3.1 (6.8)



### Extracted from RA 27 526/06.98

Page 1 of 1 See Section 16 for applicable Issue: 06.04 Preferred/Spotlight part numbers

and unit price.

# Double throttle/check valve Model Z 2 FS 16

Size 16 Series 3X

Maximum operating pressure 350 bar (5100 PSI) Maximum flow 250 L/min (66 GPM)

- Throttle valve with reverse free-flow valves
- Sandwich plate design for use in vertical stacking assemblies
- Control speed of the actuator in both directions
- Meter-in or meter-out control as required
- Porting pattern to ISO 4401-7, NFPA T 3.5.1 M R1 and NFPA/ANSI B 93.7 D 07



# Ordering code

	_					1		_		_	_	
	2	Z   :	2	FS	16	- 3X	/			,	٠	
Sandwich plate	 =Z											Further details to be written in clear text
Dual throttle/checks									no	O C	ode	e = NBR seals, suitable for
Combination throttle/check valve			յ = F:	s					.,			petroleum oils (HM, HL, HLP)
Size 16 (D 07)					16				V	=		FPM seals (standard) suitable for phosphate-ester fluids (HFD-R)
Series 3X						зх		_				
					_	3^		S=				Throttle control meter-in
(30 to 39: externally interchangeable)								S2	=			Throttle control meter-out

Flow direction		The same for both valves; throttled in one direction,
		reverse free-flow across check valve in the other
Hydraulic fluid		Petroleum oils (HM, HL, HLP) Phosphate-ester fluids (HFD-R)
Fluid temperature range	°C (°F)	NBR seals: -30 to +80 (-22 to +176) FPM seals: -20 to _80 (-4 to +176)
Maximum degree of fluid contamination		Class 18/15 according to ISO 4406. Therefore, we recommend a filter with a retention rate of $\beta_{10} \le 75$ .
Operating pressure	bar (PSI)	350 (5100)
Maximum flow	L/min (GPM)	250 (66)
Weight (approx.)	kg (lbs.)	4.7 (10.4)



### Extracted from RA 27 536/06.98

Page 1 of 1 Issue: 06.04

See Section 16 for applicable Preferred/Spotlight part numbers

and unit price.

# Double throttle/check valve Model Z 2 FS 22

Size 22 Series 3X

Maximum operating pressure 350 bar (5100 PSI) Maximum flow 360 L/min (95 GPM)

- Throttle valve with reverse free-flow valves
- Sandwich plate design for use in vertical stacking assemblies
- Control speed of the actuator in both directions
- Meter-in or meter-out control as required
- Porting pattern to ISO 4401-8, NFPA T 3.5.1 M R1 and NFPA/ANSI B 93.7 D 08



## Ordering code

	Z	2	FS	S 2	2 - 3	ΧŻ			*	,	
Sandwichplate	=Z			-			Τ.		_		Further details to be written in clear text
Dual throttle/checks		=2						no	o co	ode	
Combination throttle/check valve			FS					v	=		petroleum oils (HM, HL, HLP) FPM seals (standard) suitable for
Size 22/25 (D 08)				=22							phosphate-ester fluids (HFD-R)
Series 3X (30 to 39: externally interchangeable)				:	=3X		S S2	=			Throttle control meter-in Throttle control meter-out

Flow direction		The same for both valves; throttled in one direction, reverse free- flow across check valve in the other
Hydraulic fluid		Petroleum oils (HM, HL, HLP) Phosphate-ester fluids (HFD-R)
Fluid temperature range	°C (°F)	NBR seals: -30 to +80 (-22 to +176) FPM seals: -20 to +80 (-4 to +176)
Maximum degree of fluid contamination		Class 18/15 according to ISO 4406. Therefore, we recommend a filter with a retention rate of $\beta_{10} \le 75$ .
Operating pressure	bar (PSI)	350 (5100)
Maximum flow	L/min (GPM)	360 (95)
Weight (approx.)	kg (lbs.)	8 (17.6)