



- Max. temp. range: -10° to 180°F
- = 100% duty cycle

100% duty cycle

Uses 22mm coils

for each coil. See page 2431 for 22mm solenoid

Note: 1 connector required

Uses 22mm coils

MaxAir Solenoid and Pilot Valves

Solenoid Valves—Compact.

locking or nonlocking override

lightweight aluminum valves have

adjustments for simple setup and

troubleshooting. Use alone or mount

Prelubed units can operate without air line lubrication. 1 connector required for each coil; each is its own junction box with molded connectors and gaskets to protect electrical connections. Total coil rating is 211°F which includes heat rise. 4-way K-series valves have solenoid override for easy means of setting up and troubleshooting circuits without power to the solenoids.

Note: 22mm coils and connectors available separately, see page 2431.

Pipe			Max.			Mfr.	Item				
Size	Actuator/Return	Voltage	Operating (psi)	CFM	Cv	Model	No.				
3-Way, 2-	-Position (H Series)										
3/8 in	Solenoid/Spring	120V AC	30 to 150	81	2.3	H253SS-120-A	4HN60				
98 111	Solenoid/Spring	No Coil	30 to 150	81	2.3	H253SS-000-N	4HN58 *				
1/2 in	Solenoid/Spring	120V AC	30 to 150	85	2.4	H254SS-120-A	4HN63				
	Solenoid/Spring	No Coil	30 to 150	85	2.4	H254SS-000-N	4HN61 *				
4-Way, 2-	-Position (K Series)										
1/2 in	Solenoid/Solenoid	120V AC	20 to 150	90	2.6	K214SD-120-A	2G555				
	Solenoid/Spring	120V AC	50 to 150	90	2.6	K214SS-120-A	2G553				
3⁄4 in	Solenoid/Spring	120V AC	50 to 150	270	7.5	K216SS-120-A	2G557				
4-Way, 3-Position (K Series)											
3⁄8 in	Solenoid/Solenoid	120V AC	60 to 150	83	2.3	K313SD-120-A	1XWU4				
1/2 in	Solenoid/Solenoid	120V AC	60 to 150	90	2.57	K314SD-120-A	1XWU5				
* Order co	oils separately.										

2G553





2G429

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	coils ar	id con	nector	S.											D	ilat I	loh		Lic	uht c	l+. <i>i</i>
12				20 VAC			1	24 VDC					Pilot Valves—Light-duty								
	Pipe				Mfr.		Iter	n		M	ir.	- 1	ltem		p	ower	de	vice	s suc	ch as	S CY
	Size	CFM	Cv		Mode		No			Мо	del		No.		Ċ	h	act	alui	minu	m h	aró
	3-Way	, 2-Po	sition.	, Sol	enoid/	Spring															
	1/4 in	26	0.7	M2	52SS-	120-A	4YT	32	M25	288	6-024	-D 4	YTG3			Ope	rati	ng p	oress	ure	ran
	3⁄8 in	61	1.65	M2	53SS-	120-A	4YT	34	M25	388	6-024	-D 4	YTG5	_		Tem	n r	and	e: 15	° to	12
	1/2 in	150	4.32	M2	54SS-	120-A	4YT	36	M25	4SS	6-024	-D 4	YTG7		-	10111	P. 1	ung	0.10	, 10	12
									1		1	20V /	AC.			1		2	4V DC		
	Pipe										Mfr			Iten	n			Mfr.			tem
	Size		Actuato	or/Re	eturn	(	FM	Cv			Mod			No.				lode	1		No.
	4-Way			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								•••									
	1/4 in -		Soleno	id/S	pring		26	0.7	<u> </u>	M2 <sup>-</sup>	12SS-	120-/	A 4	IKA8	38	N	1212	SS-0	24-D	4	(A89
	74 III ·	S	olenoid	d/So	lenoid		26	0.7	·   _	M21	12SD-	120-	A 4	IKAS	)1	N	212	SD-0	24-D	4	(A92
	3% in -		Soleno	id/S	pring		61	1.6				120-/		IKAS					24-D		(A95
	78 111 1		olenoid				61	1.6				·120-/		IKAS					124-D		(A98
	1/2 in -		Soleno				150	4.3				120-/		IKB1					24-D		(B11
	72 111 -	S	olenoid	d/So	lenoid		150	4.3	2	M21	14SD-	·120-/	A 4	IKB1	13	N N	1214	SD-0	24-D	4	<b>(B1</b> 4
																1	INPT				
																Por	rt (in	.)	CF	M	
																3-W	ay, 2	2-Pos	sition,	Pilo	t Val
		1	1⁄4" NP	TP	IRT	3.	%" NP	Τ ΡΛ	RT	1	1/5"	ИРТ І	PORT				1/4		2	6	
	No. o		Mfr.		Item		Mfr.		ltem		Mf		Ite	m			3⁄8		6	1	_
	Station		Model		No.		odel		No.		Mod		No				1/2		15	0	
	Manif						0401														
	2		26M02-	-02	4KB16	M30	M03-I	12 4	IKB21	IN	134M	04-02	2 4KB	26					For	Use \	With
	4		26M02						KB22			04-04				Man	ifol	d Bla	nking		
	6	M2	26M02-	-06	4KB18	M30	M03-	06 4	IKB23	N	134M	04-06	6 4KB	28					in NF		
	-	1		0.0		11100	1100			1.1		0 1 0 0		00							

to manifolds (sold separately) when multiple valves are needed in a limited space.

- Max. operating pressure: 115 psi

vlinders, slides, or gates. construction.

- nge: 45 to 140 psi
  - 22°F

2 IN 1	50 4.32 M254SS-		101207	SS-024-D 4Y					
ipe				120V A0 Mfr.	; Item	24V D0 Mfr.	C Item	No Mfr.	Coil Item
ize	Actuator/Return	CFM C	v	Model	No.	Model	No.	Model	No.
-Way, 2	2-Position								
	Solenoid/Spring	26 0	.7   M	212SS-120-A	4KA88	M212SS-024-D	4KA89	M212SS-000	-N 4KA90
4 in —	Solenoid/Solenoid	26 0	.7 M	212SD-120-A	4KA91	M212SD-024-D	4KA92	M212SD-000	-N 4KA93
%in —	Solenoid/Spring		65 M	1213SS-120-A	4KA94	M213SS-024-D	4KA95	M213SS-000	-N 4KA96
8 111 —	Solenoid/Solenoid			213SD-120-A	4KA97	M213SD-024-D		M213SD-000	-N 4KA99
₂ in —	Solenoid/Spring			1214SS-120-A	4KB10	M214SS-024-D		M214SS-000	
2 111 -	Solenoid/Solenoid	150 4.	32   M	1214SD-120-A	4KB13	M214SD-024-D	4KB14	M214SD-000	-N 4KB15
						NPT		Mfr.	Item
						Port (in.) CI	-M C	v Mode	I No.
						3-Way 2-Position	Pilot Valve	. Remote Pilot/	Snring
	1/4" NPT PORT	36" NPT P	ORT	1/4" NPT P(	IRT		6 0		
ln nf	1/4" NPT PORT Mfr Item	3%" NPT P		1/2" NPT PC Mfr		1/4 2 3/8 6	6 0		S 4YTF1
lo. of ations	Mfr. Item	3%" NPT P Mfr. Model	ORT Item No.	½" NPT P( Mfr. Model	DRT Item No.	1/4 2 3/8 6	6 0 1 1	7 M252F	PS 4YTF1 PS 4YTF2
	Mfr. Item Model No.	Mfr.	Item	Mfr.	Item	1/4 2 3/8 6	6 0 1 1	7 M252F 6 M253F 3 M254F	PS 4YTF1 PS 4YTF2
ations	Mfr. Item Model No. d Kits M26M02-02 4KB16	Mfr. Model	ltem No.	Mfr. Model	Item	1/4 2 3/8 6 1/2 1! For	16 0 11 1 50 4 <b>Use With</b>	7 M252F 6 M253F 3 M254F	25 4YTF1 25 4YTF2 25 4YTF3
ations lanifol 2 4	Mfr. Item Model No. d Kits M26M02-02 4KB16 M26M02-04 4KB17	Mfr. Model M30M03-02 M30M03-04	ltem No. 4KB21 4KB22	Mfr. Model M34M04-02 M34M04-04	Item No. 4KB26 4KB27	1/4 2   3/6 6   1/2 1!   For   Manifold Blanking	6 0 11 1 50 4 Use With Plates	7 M252F 6 M253F 3 M254F	os 4YTF1 Os 4YTF2 Os 4YTF3 Mfr. Item Nodel No.
ations lanifol 2 4 6	Mfr.     Item       Model     No.       d Kits     M26M02-02     4KB16       M26M02-04     4KB17       M26M02-06     4KB18	Mfr. Model M30M03-02 M30M03-04 M30M03-06	Item No. 4KB21 4KB22 4KB23	Mfr. Model M34M04-02 M34M04-04 M34M04-06	Item No. 4KB26	1/4 2   3/8 6   1/2 11   For   Manifold Blanking   Port Sizes 1/4 in N	6 0 11 1 50 4 1 Use With 1 Plates PT M26 Serie	7 M252F 6 M253F 3 M254F N s Manifolds M	25 4YTF1 25 4YTF2 25 4YTF3 Mfr. Item Nodel No. 26MB 4KB35
ations lanifol 2 4 6 8	Mfr.     Item       Model     No.       d Kits     M26M02-02       M26M02-04     4KB16       M26M02-06     4KB18       M26M02-06     4KB18       M26M02-08     4KB19	Mfr. Model M30M03-02 M30M03-04 M30M03-06 M30M03-08	Item No. 4KB21 4KB22 4KB23 4KB24	Mfr. Model M34M04-02 M34M04-04 M34M04-06 M34M04-08	Item No. 4KB26 4KB27 4KB28 4KB29	1/4 2   3/8 6   1/2 11   For   Manifold Blanking   Port Sizes 1/4 in N   Port Sizes 3/6 in N	6 0 1 1 50 4 <b>Use With</b> <b>J Plates</b> PT M26 Serie PT M30 Serie	7 M252F 6 M253F 3 M254F s Manifolds M s Manifolds M	S     4YTF1       25     4YTF2       25     4YTF3       Mfr.     Item       Iodel     No.       26MB     4KB35       30MB     4KB36
ations lanifol 2 4 6	Mfr.     Item       Model     No.       d Kits     M26M02-02     4KB16       M26M02-04     4KB17       M26M02-06     4KB18	Mfr. Model M30M03-02 M30M03-04 M30M03-06 M30M03-08	Item No. 4KB21 4KB22 4KB23 4KB24	Mfr. Model M34M04-02 M34M04-04 M34M04-06 M34M04-08	Item No. 4KB26 4KB27 4KB28 4KB29	1/4 2   3/8 6   1/2 11   For   Manifold Blanking   Port Sizes 1/4 in N	6 0 1 1 50 4 <b>Use With</b> <b>J Plates</b> PT M26 Serie PT M30 Serie	7 M252F 6 M253F 3 M254F s Manifolds M s Manifolds M	25 4YTF1 25 4YTF2 25 4YTF3 Mfr. Item Nodel No. 26MB 4KB35



1

Valve

- Operating pressure range: 50 to 150 psi
- Temp. range: 0° to 180°F
- Uses 22mm coils

High flow capacity. Bonded and precision ground urethane-to-aluminum spool for wear resistance. Prelubed: can be operated without air line lubrication. Each stack of valves requires a stacking end plate kit 2G599, sold separately.

Note: When operating below 50 psi, Low Pressure Kit 4HN96 must be used.

Note: 1 connector required for each coil. Coils and connectors sold on page 2431.

Port Size	Size	Actuator/Return	LOII	IVIODEI	NO.					
4-Way, 2-	Position	on, 68 cfm, 1.9 Cv								
1⁄4 in		Pilot/Spring	_	A222PS	2F989	†				
	_	Pilot/Pilot	_	A222PD	2F987	Ť				
		Solenoid/Spring	24VDC	A222SS-024-D	4XT38					
_	1⁄4 in	Solenoid/Spring	120VAC	A222SS-120-A	2G429					
		Solenoid/Spring	_	A222SS-000-N	2F997	+				
		Solenoid/Solenoid	120VAC	A222SD-120-A	2F995					
4-Way, 3-	-Positio	on (Spring Centered	, All Port	s Blocked in Neutral)	, 61 cfm, 0	.7 Cv				
_	1⁄4 in	Solenoid/Solenoid	120VAC	A322SD-120-A	2G457					
		<b>Compact Stacking</b>		lves						
Stacking	End Pl	ate Kit (1 kit require	d	MKP	2G599					
for each		f valves)								
Isolation	Plate			PTN	2G601					
Short L I	Mountir	ng Bracket		116808	2F807					
Low Pres	ssure K	iť		119306	4HN96					
t Order coils separately.										

Inlet Port

**Check Valve** 

NP NP

MP

MP

Needle Valve NP1 NP1



Assembled

Valves with

End Plate Kit

## Check and Needle Valves

- Max. operating pressure: 200 psi
- Operating temp. range: 0° to 200°F

Corrosion-resistant valve bodies are made of lightweight composite material. Threaded for panel mount. Lock rings secure set flow rate. Feature calibrated adjustment knob, 4-stage needle, color-coded micrometer, and zinc-plated pipe port inserts.

Check—Use to check or direct air in 1 direction.

Needle-Increase or decrease airflow in both directions, then set with red lock ring. Find even MORE on Grainger.com®

1-800-GRAINGER (472-4643)

Outlet Port

NP

MP'

. NP

NP 28 58 90

MP'

CFM

Mfr.

Item

Mfr

Model

04104-N01

104104-N02 **4KB94** 104104-N03 **4KB96** 

4KE

4KF

AKR02

**ARO** 

- Temp. range: 15° to 122°F
- Buna N seals standard

Pilot Valves-Light-duty directional control valves