

Assembly Numbers SYNCHRO Valves

-P Style Gas Poppet Type Valves

Size	Configured Item Number
1/2" -P	0050 P SYN
3/4" -P	0075 P SYN
1" -P	0100 P SYN
1-1/4" -P	0125 P SYN
1-1/2" -P	0150 P SYN
2" -P	0200 P SYN
2-1/2" -P	0250 P SYN

Segment Choice Detail - -P Style Poppet Type Valves

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
BODY TYPE	Type of valve body	O2ANSI	ANSI oxygen service
		O2ISO	ISO oxygen service [1]
		STDANSI	Standard ANSI poppet valve body
		STDISO	Standard ISO poppet valve body [1]
CAM STYLE	Type of cam	STD	Standard cam
VALVE STYLE (TRIM)	Valve internal trim material	SS	Stainless steel trim
		STD	Standard trim
FLANGE TYPE	For 2" and 2.5" sizes only	ISO	ISO flange
		STD	NPT flange
CONN BASE & LINKAGE	Type of connecting base and linkage assembly (CB&L), if desired	BARB_COL	Barber-Colman electric EA51-58, MC, MP, MF CB&L
		BECK	Beck electric high torque CB&L
		HW_HERC	Honeywell Herculine motor
		HW_MOD	Honeywell electric Modutrol CB&L
		NONE	No CB&L
SWITCH	Type of position switch required	AUX	Auxiliary position switch
		GPLF	General purpose lo position switch
		GPLFBH	GP low position w/B-HAR connector
		GPLFHF	General purpose, hi & lo position switches
		GPLFHFHBH	GP low position, hi position w/B-HAR connector
		HDLF	Hazardous duty lo position switch
		NONE	No position switch
		WLF	Weatherproof lo position switch
		WLFBH	Weatherproof low position w/B-HAR connector
		WLFHF	Weatherproof, lo & hi position switches
		WLFHFHBH	WP low position, high position w/B-HAR connector
		4AUX	NEMA 4 auxiliary position
		4LF	NEMA 4 low position
		4LFBH	NEMA 4 low pos w/B-HAR connector
4LFHF	NEMA 4 low, high position		
4LFHFHBH	NEMA 4 low, high pos w/B-HAR connector		
TORQUE REQUIREMENT	Enter value	Calculated	---
VALVE ACTUATOR	Type of actuator	HW_MOD	Honeywell M7284 control motor
		NONE	No actuator chosen

[1] Not available for .5", 2" and 2.5" sizes

Assembly Numbers SYNCHRO Valves

-M Style Gas Butterfly Valves

Type	Size	Configured Item Number
-M Style	1-1/2" -M	0150 M SYN
	2" -M	0200 M SYN
	2-1/2" -M	0250 M SYN
	3" -M	0300 M SYN
	4" -M	0400 M SYN
	6" -M	0600 M SYN
	8" -M	0800 M SYN
	10" -M [1] [2]	1000 M SYN
12" -M [1] [2]	1200 M SYN	

-S Style Gas Butterfly Valves

Type	Size	Configured Item Number
-S Style	3" -S	0300 S SYN
	4" -S	0400 S SYN

[1] These selections are not available for the Top Valve in a Two Fuel or the Gas Valve in an MM MRV.

[2] Only available as specials

Segment Choice Detail - -M and -S Style Valves

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
VALVE STYLE (TRIM)	Valve internal trim material (for 1-1/2" through 4" sizes)	SS	Stainless steel trim
		STD	Standard trim material
CAM STYLE	Type of cam	STD	Standard cam
FLANGE TYPE	Flange choices for 1-1/2" through 8" valves	ISO	ISO threaded flange (not available for 8" size)
		SOC	Socket welded flanges (for 4", 6" & 8" sizes only)
		STD	NPT threaded flange
	Flange choice available for 10" and 12" valves	NONE	No flange
		150	150# cast steel socket welded flange
SPRING TYPE	Spring choices (for 1-1/2" through 4" valves)	SHP	SHP (high pressure) version
		STD	Standard -M valve spring
CONN BASE & LINKAGE	Type of connecting base and linkage assembly (CB&L), if desired	BARB_COL	Barber-Colman electric EA51-58, MC, MP, MF CB&L
		BECK	Beck electric high torque CB&L
		HW_HERC	Honeywell Herculine motor
		HW_MOD	Honeywell electric Modutrol CB&L
		NONE	No CB&L
SWITCH	Type of position switch required	AUX	Auxiliary position switch
		GPLF	General purpose lo position switch
		GPLFBH	GP low position w/B-HAR connector
		GPLFHF	General purpose, hi & lo position switches
		GPLFHFBH	GP low position, high position w/B-HAR connector
		HDLF	Hazardous duty lo position switch
		NONE	No position switch
		WLF	Weatherproof lo position switch
		WLFBH	Weatherproof low position w/B-HAR connector
		WLFHF	Weatherproof, lo & hi position switches
		WLFHFBH	WP low position, high position w/B-HAR connector
		4AUX	NEMA 4 auxiliary position
		4LF	NEMA 4 low position
4LFBH	NEMA 4 low position w/B-HAR connector		
4LFHF	NEMA 4 low, high position		
4LFHFBH	NEMA 4 low, high position w/B-HAR connector		
VALVE GASKET MATERIAL	Gasket material for 4" through 8" valves	STD	Standard neoprene gasket
		SURSEAL	Fiber with nitrile binder
TORQUE REQUIREMENT	Enter value	Calculated	---
VALVE ACTUATOR	For 1.5" to 4" valves	HW_MOD	Honeywell M7284 control motor
		NONE	No actuator chosen

Assembly Numbers SYNCHRO Valves

-O Style Oil Valves

Size	Configured Item Number
3/8" - O - 8	0038 O8 SYN
1/2" - O - 20	0050 O20 SYN
1/2" - O - 50	0050 O50 SYN
1/2" - O - 100	0050 O100 SYN
3/4" - O - 200	0075 O200 SYN
1" - O - 400	0100 O400 SYN
1" - O - 750	0100 O750 SYN

Segment Choice Detail - -O Style Oil Valves

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
TRIM CHOICE	Valve internal trim material	SS	Stainless steel trim material
		STD	Standard trim material
CAM STYLE	Type of cam	R&P	Rack & pinion cam
		STD	Standard cam
VALVE BODY TYPE	Type of valve body	ISO	ISO 350 degree (for 3/4" & 1" valves only)
		STD	Standard 350 degree
		450	450 degree steel ANSI
		450ISO	450 degree steel ISO (for 3/4" & 1" valves only)
		450SOC	450 degree steel socket weld
CONNECTING BASE & LINKAGE	Type of connecting base and linkage assembly (CB&L), if desired	BARB_COL	Barber-Colman electric EA51-58, MC, MP, MF CB&L
		BECK	Beck electric high torque CB&L
		HW_HERC	Honeywell Herculine motor
		HW_MOD	Honeywell electric Modutrol CB&L
		NONE	No CB&L
SWITCH	Type of position switch required	AUX	Auxiliary position switch
		GPLF	General purpose lo position switch
		GPLFBH	GP low position w/B-HAR connector
		GPLFHF	General purpose, hi & lo position switches
		GPLFHFBH	GP low position, high position w/B-HAR connector
		HDLF	Hazardous duty lo position switch
		NONE	No position switch
		WLF	Weatherproof lo position switch
		WLFBH	Weatherproof low position w/B-HAR connector
		WLFHF	Weatherproof, lo & hi position switches
		WLFHFBH	WP low position, high position w/B-HAR connector
		4AUX	NEMA 4 auxiliary position
		4LF	NEMA 4 low position
		4LFBH	NEMA 4 low position w/B-HAR connector
		4LFHF	NEMA 4 low, high position
		4LFHFBH	NEMA 4 low, high position w/B-HAR connector

Assembly Numbers SYNCHRO Valves

M Style Air Control Valves

Size	Configured Item Number
M- 1-1/2"	M 0150 CTL
M- 2"	M 0200 CTL
M- 2-1/2"	M 0250 CTL
M- 3"	M 0300 CTL
M- 4"	M 0400 CTL
M- 6"	M 0600 CTL
M- 8"	M 0800 CTL
M- 10"	M 1000 CTL
M- 12"	M 1200 CTL
M- 14"	M 1400 CTL
M- 16"	M 1600 CTL
M- 18"	M 1800 CTL

Segment Choice Detail - M Style Air Control Valves (sizes 1.5" through 8")

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
TEMPERATURE RATING	Temperature rating desired	200	Standard 200 degree valve
		450	450 degree valve
FLANGE TYPE	Type of flange required	ISO	ISO threaded flange (1.5" through 6" only)
		SOC	Socket welded flange (4", 6" & 8" sizes only)
		STD	NPT threaded flange
CONNECTING BASE & LINKAGE	Type of connecting base and linkage assembly (CB&L), if desired	BARB_COL	Barber-Colman electric EA51-58, MC, MP, MF CB&L
		HW_HERC	Honeywell Herculine motor
		HW_MOD	Honeywell electric Modutrol CB&L
		NONE	No CB&L
SWITCHES	Type of position switch required	NONE	No switches
		OM	Omron lo position switch
		WHF	Weatherproof hi position switch
		WHFBH	Weatherproof high position switch w/B-HAR connector
		WLF	Weatherproof lo position switch
		WLFBH	Weatherproof lo position switch w/B-HAR connector
ADJUSTABLE STOP OPTION	Optional adjustable stop feature	NO	No adjustable stop
		YES	Adjustable stop wanted
GASKET MATERIAL CHOICE	Type of gasket material (4" through 8" only)	STD	Standard neoprene gasket
		SURSEAL	Fiber with nitrile binder
TORQUE REQUIREMENT	Enter value	Calculated	---

Assembly Numbers SYNCHRO Valves

Segment Choice Detail - M Style Air Control Valves (sizes 10" through 18")

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
TEMPERATURE RATING	Temperature rating desired	200	Standard 200 degree valve
FLANGES	Type of flange required	NONE	No flange
		150	150# cast steel socket welded
CONNECTING BASE & LINKAGE	Type of connecting base and linkage assembly (CB&L), if desired	BARB_COL	Barber-Colman electric EA51-58, MC, MP, MF CB&L
		HW_HERC	Honeywell Herculine motor
		HW_MOD	Honeywell electric Modutrol CB&L
		NONE	No CB&L
SWITCHES	Type of position switch required	NONE	No switches
		OM	Omron lo position switch
		WHF	Weatherproof hi position switch
		WHFBH	Weatherproof hi position switch w/B-HAR connector
		WLF	Weatherproof lo position switch
		WLFBH	Weatherproof lo position switch w/B-HAR connector
ADJUSTABLE STOP OPTION	Optional adjustable stop feature	NO	No #23226 adjustable stop
		YES	Adjustable stop wanted (#23226)
TORQUE REQUIREMENT	Enter value	Calculated	---

Assembly Numbers

MICRO-RATIO® Valves

Duplex MICRO-RATIO® Valves

MICRO-RATIO® Valve	Configured Item Number
MXP	MP MRV
MXM	MM MRV
MXS	MS MRV
MXO	MO MRV
MXA	MA MRV

NOTE: When ordering any duplex or triplex MICRO-RATIO® Valve assembly, choose the same air valve temperature rating at all levels.

Duplex MICRO-RATIO® Valve Combinations

Configured Item Number	Segment Name	Segment Choices (DEFAULT is shaded)	Segment Choice Description
MP MRV & MO MRV	AIR VALVE SIZE	See page 7000-A/P-4 [1]	
	GAS VALVE SIZE	See page 7000-A/P-1, 7000-A/P-2 & 7000-A/P-3	
	FLOW DIRECTION	L	LEFT
		R	RIGHT
	TAGGING	ALW	Aluminum wire-on
		NONE	No label
		SSW	Stainless steel wire-on
	CAM STYLE	STD	Standard cam
	AIR VALVE TEMPERATURE RATING	200	200 degree valve
		450	450 degree valve w/special trim (1.5" - 8")
	AIR VALVE SWITCH CHOICE	NONE	No switch
		OM	Omron low position switch
		WHF	Weatherproof high position switch
WHFBH		W'proof high position switch w/B-HAR conn.	
WLF		Weatherproof low position switch	
WLFBH		W'proof low position switch w/B-HAR conn.	
MM MRV & MS MRV	AIR VALVE SIZE	See page 7000-A/P-4 [1]	
	GAS VALVE SIZE	See page 7000-A/P-1 & 7000-A/P-2	
	TAGGING	ALW	Aluminum wire-on
		NONE	No label
		SSW	Stainless steel wire-on
	CAM STYLE	STD	Standard cam
	AIR VALVE TEMPERATURE RATING	200	200 degree valve
		450	450 degree valve w/special trim
	AIR VALVE SWITCH CHOICE	NONE	No switch
		OM	Omron low position switch
WHF		Weatherproof high position switch	
WHFBH		W'proof high position switch w/B-HAR conn.	
WLF		Weatherproof low position switch	
WLFBH		W'proof low position switch w/B-HAR conn.	
MA MRV	AIR VALVE SIZE	See page 7000-A/P-4 [1]	
	GAS VALVE SIZE	See page 7100-A/P-1	
	TAGGING	ALW	Aluminum wire-on
		NONE	No label
		SSW	Stainless steel wire-on
	CAM STYLE	STD	Standard cam
	AIR VALVE SWITCH CHOICE	NONE	No switch
		OM	Omron low position switch
		WHF	Weatherproof high position switch
		WHFBH	W'proof high position switch w/B-HAR conn.
WLF		Weatherproof low position switch	
WLFBH		W'proof low position switch w/B-HAR conn.	

[1] CB&L's not available for air valves in MICRO-RATIO Valve assemblies

Assembly Numbers MICRO-RATIO® Valves

Triplex MICRO-RATIO® Valves

MICRO-RATIO® Valve	Configured Item Number
Triplex MICRO-RATIO Assembly	TRIPLEX MRV

NOTE: When ordering any duplex or triplex MICRO-RATIO® Valve assembly, choose the same air valve temperature rating at all levels.

Triplex MICRO-RATIO® Valve Combinations

Configured Item Number	Segment Name	Segment Choices (DEFAULT is shaded)	Segment Choice Description
TRIPLEX MRV	DUPLEX TO ADD SYNCHRO TO	AA	See page 7100-A/P-2 through 4 for segment descriptions
		AO	
		AP	
		MA	See page 7000-A/P-6 for segment descriptions
		MM	
		MO	
		MP	
	MS		
	THIRD VALVE (ADDED TO DUPLEX)	See pages 7000-A/P-1 through 3 or page 7100-A/P-1 for segment choices and descriptions	
	TAGGING	ALW	Aluminum wire-on
NONE		No label	
SSW		Stainless steel wire-on	
CAM STYLE	STD	Standard cam	

Two Fuel SYNCHRO Valves

SYNCHRO Valve	Configured Item Number
Two Fuel SYNCHRO Valve Assembly	TWO FUEL

Two Fuel SYNCHRO Valve Combinations

Configured Item Number	Segment Name	Segment Choices (DEFAULT is shaded)	Segment Choice Description
TWO FUEL	FIRST (BOTTOM) FUEL VALVE	See pages 7000-A/P-1 to 3 or page 7100-A/P-1 for segment choices	
	SECOND (TOP) FUEL VALVE	See pages 7000-A/P-1 to 3 or page 7100-A/P-1 for segment choices	
	TAGGING	ALW	Aluminum wire-on
		NONE	No label
		SSW	Stainless steel wire-on
CAM STYLE	STD	Standard cam	

Assembly Numbers Series CV Control Valves

Series CV Control Valves

Series "CV" Valve Assemblies		
Standard Version	Size & Designation	UL Version
Configured Product Number		Configured Product Number
0050 CV	1/2" -CV	0050 CVUL
0075 CV	3/4" -CV	0075 CVUL
0075U CV	3/4" -U -CV	0075U CVUL
0100 CV	1" -CV	0100 CVUL
0100U CV	1" -U -CV	0100U CVUL
0125 CV	1-1/4" -CV	0125 CVUL
0125U CV	1-1/4" -U -CV	0125U CVUL
0150 CV	1-1/2" -CV	0150 CVUL
0200 CV	2" -CV	0200 CVUL
0250 CV	2-1/2" -CV	0250 CVUL
0300 CV	3" -CV	0300 CVUL

Segment Choice Detail - Series CV Control Valves

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
BODY CONNECTION	Type of connection	ANSI_THRD	ANSI threads
		ISO_THRD	ISO threads [1]
SHAFT MATERIAL	Material used for shaft	CS	Carbon steel
		SS	Stainless steel
CB&L [2]	Type of connecting base and linkage assembly (CB&L), if desired	BARB_COL	Barber-Colman electric CB&L
		HW_HERC	Honeywell Herculine motor
		HW_MOD	Honeywell Modutrol electric CB&L
		NONE	No CB&L
POSITION SWITCH [2]	Type of position switch required	BELIMO_LFS [3]	Belimo Low Fire Start Switch
		HWELL_LFS	Honeywell Low Fire Start Switch
		NONE	No position switch
		OMWPHLPS	Omron weatherproof hi & low position switch
OMWPLPS	Omron weatherproof low position switch		
MOPD RATING	Maximum operating pressure differential (psi)	Default is maximum pressure and varies according to valve size	
ACTUATOR FOR CB&L	Type of valve actuator	HW_MOD	Honeywell M7284 control motor
		NONE	No actuator chosen
DIRECT COUPLED ACTUATOR	CV valve actuator (HW & BLM)	BELIMO	Belimo Actuator Assembly
		HW_DIR	Honeywell N75 Actuator Assembly
		MATTHEWS	Mathews Company (Adpt, PinOnly)
		NONE	No Actuator
		STROM	Stromquist Actuator Kit

[1] ISO threads are not available on UL versions.

[2] These selections are not available on UL versions.

[3] Not available on 3" size

Assembly Numbers

Series BV Balancing Valves

Series BV Balancing Valves

Size and Designation	Configured Product Number
1/2" -BV	0050 BV
3/4" -BV	0075 BV
1" -BV	0100 BV
1-1/4" -BV	0125 BV
1-1/2" -BV	0150 BV
2" -BV	0200 BV
2-1/2" -BV	0250 BV
3" -BV	0300 BV

Segment Choice Detail - Series BV Balancing Valves

Segment Name	Segment Description	Segment Choice (DEFAULT is shaded)	Segment Choice Description
BODY CONNECTION	Type of connection	ANSI_THRD	ANSI threads
		ISO_THRD	ISO threads
SHAFT MATERIAL	Material used for shaft	CS	Carbon steel
		SS	Stainless steel
MOPD RATING	Maximum operating pressure differential (psi)	Default is maximum pressure and varies according to valve size	

Assembly Numbers

Connecting Base & Linkage Assemblies

Manufacturer		SYNCHRO & MICRO-RATIO® Valves	M Style Air Control Valves	Series CV Valves
Name	Description	Standard Cam		
Barber-Colman	Barber-Colman electric EA51-58, MC, MP, MF	15166	32820	42776 18194*
Honeywell	Honeywell electric Modutrol	16241	32819	42776 18194*
	Honeywell Herculine motor	1066872	1066902	1066903
Beck	Beck electric 11-150	09041	---	---
Belimo	Belimo (configured)	---	---	CV BLM ACT
	Belimo LMC24-SR US Fast Acting	---	---	1075663

* Use top number for 1-1/4" and smaller valves; bottom number for 1-1/2" and larger

Segment Choice Detail - CV BLM ACT

Segment Name	Segment Description	Segment Choices (DEFAULT is shaded)	Segment Choice Description
OPERATING RANGE	Actuator operating range	2_10	2 to 10vDC
		4_20	4 to 20 mA with 3 ft cable
		4_20L	4 to 20mA with 10 ft cable
RUN TIME	Length of run time	30	25 to 35 seconds
		95	95 seconds
CONTROL	Type of control	PROP	Proportional control
CONNECTION TYPE	Type of connection	CABLE	Standard cable connection
		STRIP	Terminal strip connection
TERMINAL STRIP COVER	Choice of terminal strip cover option	NONE	Choice not selected
		YES	Choice selected
P500A 500 OHM POTENTIOMETER	Choice of potentiometer option	NONE	Choice not selected
		YES	Choice selected

Assembly Numbers

Auxiliary Signal Switch Assemblies - SYNCHRO, MICRO-RATIO® & M Style Air Valves

Switch Description	SYNCHRO & MICRO-RATIO® Valves	M Style Air Control Valve
	with standard cam	
Auxiliary position switch	14309	---
General purpose lo position switch	14316	---
General purpose, hi & lo position switches	18189	---
Hazardous duty lo position switch	35945	---
Weatherproof lo position switch	35614	35612
Weatherproof, lo & hi position switches	39508	---
Omron lo position switch	---	46656
Weatherproof hi position switch	---	1065799
Weatherproof hi position switch with Brad Harrison connector	---	1074021
General purpose lo position switch with Brad Harrison connector	1073827	---
General purpose hi, lo position switches with Brad Harrison connector	1073829	---
Weatherproof lo position switch with Brad Harrison connector	1073830	1074020
Weatherproof hi, lo position switches with Brad Harrison connector	1073831	---

Auxiliary Signal Switch Assemblies - Series CV Control Valves

Valve Series & Size		Switch Description		
Series	Size	Omron weatherproof hi & lo position switch	Omron weatherproof lo position switch	Belimo low fire start switch
Series CV Valves	.5	1036009	1036373	1060210
	.75	1036009	1036373	1060210
	1	1036009	1036373	1060210
	1.25	1036009	1036373	1060210
	1.5	1036009	1036373	1060210
	2	1036009	1036373	1060210
	2.5	1036009	1036373	1060210
	3	1059410	1059409	1060210

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