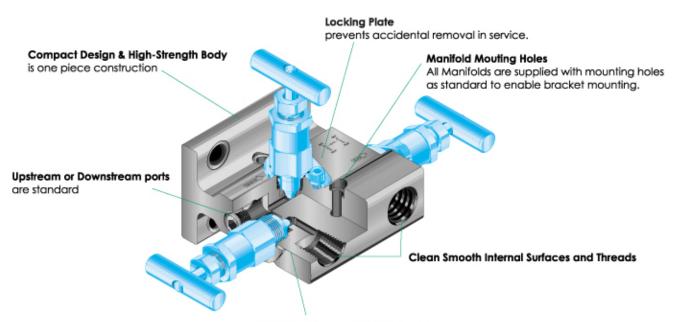






M Series

General



Metal to Metal, Bonnet to Body Seals

Features

- Pressure rating up to 6000psig (410 bar) @ 100 °F(38 °C)
- Temperature rating up to 1200 °F(648 °C) with optional Grafoil packing
- · Flange seal grooves meet the design requirements of MSS-SP-99
- · Body materials available in 316 stainless steel, carbon steel, alloy 400
- · 100% factory tested

Technical Data

Packing & Body Material vs Temperature and Pressure Rating

Packing Material	Body Material	Temperature Range	Pressure Rating @ 100 °F	Pressure Rating @ Max. Temperature
	Stainless Steel	-65 °F ~ 450 °F (-54 °C ~ 232 °C)	6000 psig	4130 psig @ 450 °F (285 bar @ 232 °C)
PTFE	Carbon Steel	-20 °F ~ 350 °F (-29 °C ~ 176 °C)	6000 psig	5230 psig @ 350 °F (360 bar @ 176 °C)
	Alloy 400	-65 °F ~ 450 °F (-54 °C ~ 232 °C)	5000 psig	3970 psig @ 450 °F (274 bar @ 232 °C)
	Stainless Steel	-65 °F ~ 1200 °F (-54 °C ~ 648 °C)	6000 psig	1715 psig @ 1200 °F [®] (118 bar @ 648 °C)
Grafoil	Carbon Steel	-20 °F ~ 350 °F (-29 °C ~ 176 °C)	6000 psig	5230 psig @ 350 °F (360 bar @ 176 °C)
	Alloy 400	-65 °F ~ 500 °F (-54 °C ~ 260 °C)	5000 psig	3960 psig @ 500 °F [®] (273 bar @ 260 °C)

(a) 1715 psig (a) 1200 °F(118 bar (a) 648 °C) for female NPT to female NPT manifold 1715 psig (a) 1000 °F(118 bar (a) 537 °C) for flange connection manifold

(b) Not applicable over 500 °F(260 °C) Note - Optional viton⁻ flange seals available, Minimum temperature -20 °F(29 °C)

Testing

- Each instrument manifold is tested with nitrogen
- @ 1000 psig (69 bar) to max. leak rate of 0.1 SCCM.
 Hydrostatic shell test is performed at 1.5 times the working pressure as an option.
- · Other tests are available upon request.

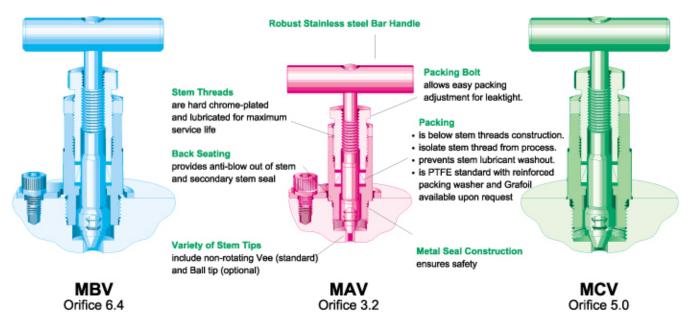
Sour Gas Service

Valves are available in materials which comply with standard NACE MR-01-75 latest revision relating to metalic materials offering optimum resistance to sulfide stress cracking



M Series

Bonnet Features



10

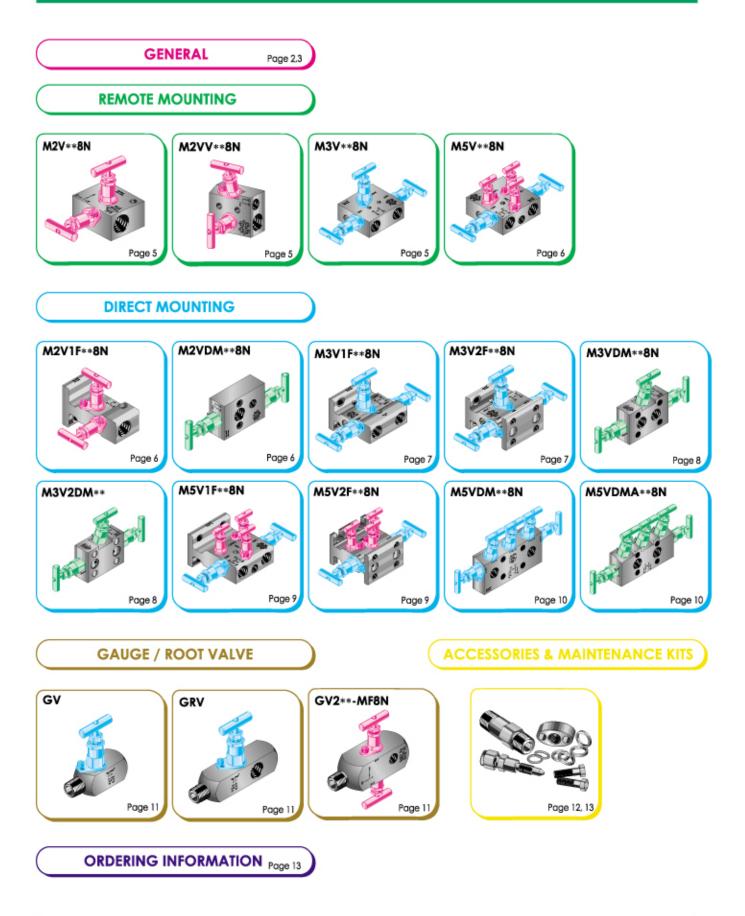
9

*Note : Bonnet selection by color after this page

Materials of Construction

Contraction of the second seco							
- 8			Material / ASTM Specification				
		Description	* Body Material				
r 7			316SS / A479	C. Steel / A105	Alloy 400 / B164		
6 - 🥌 🥌 6	* 2A	Vee tip	62000	14504	Alley, 500 / D005		
	* 2B	Ball tip	630SS	Alloy 500 / B865			
5B 🗸 👝 🐣 — 6	* 3	Stem	316SS	Alloy 400 / B164			
	* 4	Bonnet	316SS / A479	C. Steel / A105	Alloy 400 / B 104		
- - 4	* 5A	Dealise		PTFE			
	* 5B	Packing	Grafoil				
	* 6	Packing Washer		Reinforced PTFE			
3	7	Lock nut		316SS / A479			
	8	Packing bolt	316SS / A479				
2B _ 1	9	Handle	Stainless Steel	Aluminium	Stainless Steel		
2A	10	Set screw					
	11	Locking Plate		Stainless Steel			
12	12	Spring Washer		Stainless Steel			
11	13	Bolt					
	** " m	arked are wetted	parts.				
盘 盘	Grafo	oil is a trade mark	of UCAR				
	1 12 1	3 3	4 6	5A 6 7 8	3 10 -		
	///						
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2A	2B			5B 6	9		

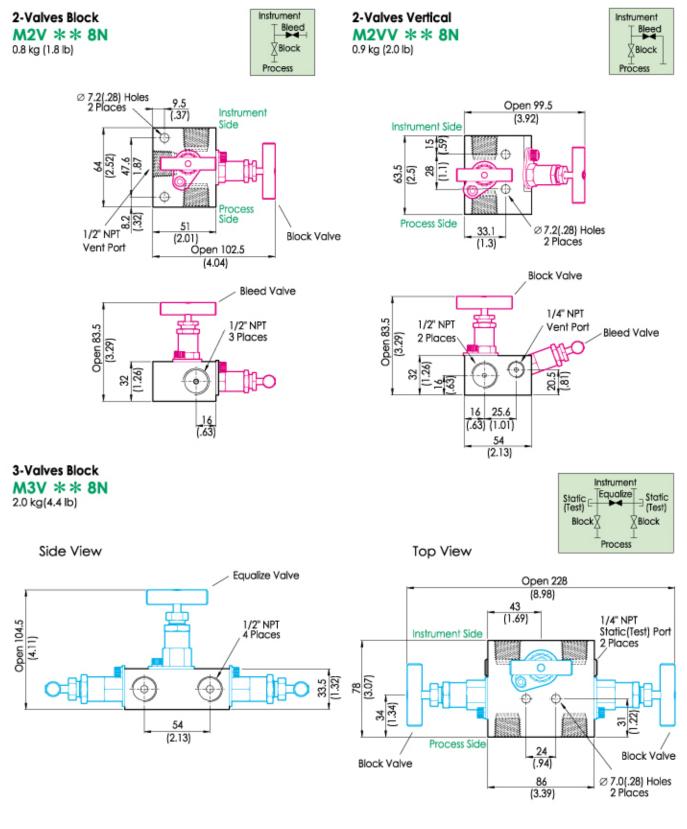
INDEX





M Series

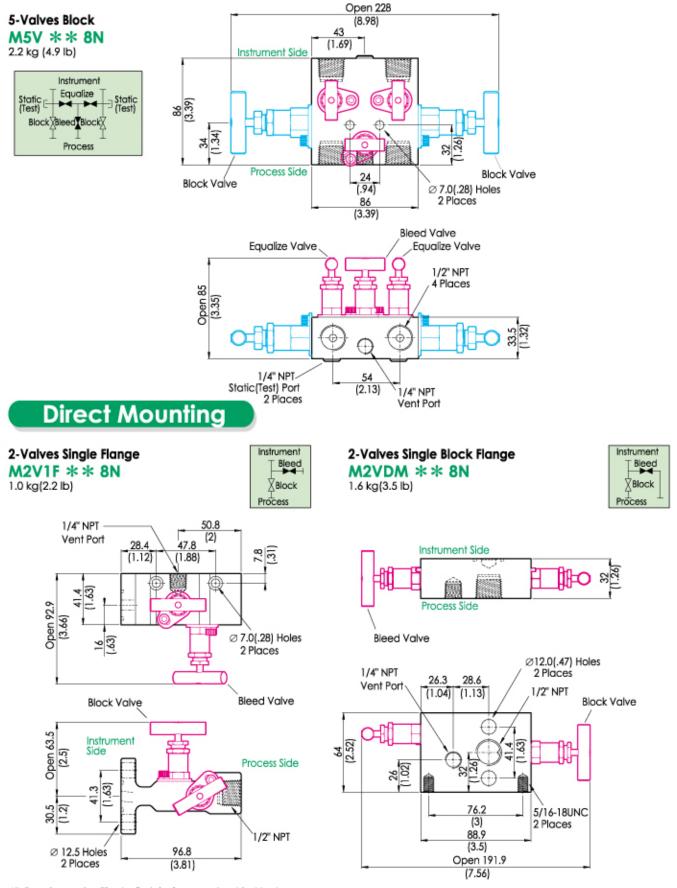
Remote Mounting



All dimensions are in millimeters(inchs) reference only, subject to change.

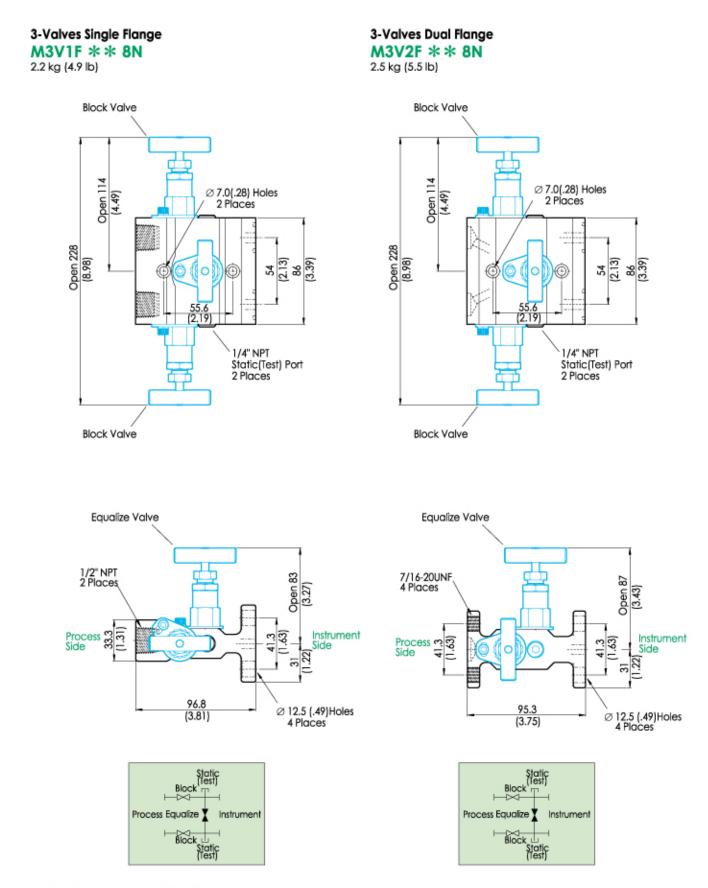


M Series



All dimensions are in millimeters(inchs) reference only, subject to change.

6



All dimensions are in millimeters(inchs) reference only, subject to change.



M Series

Instrument Equalize

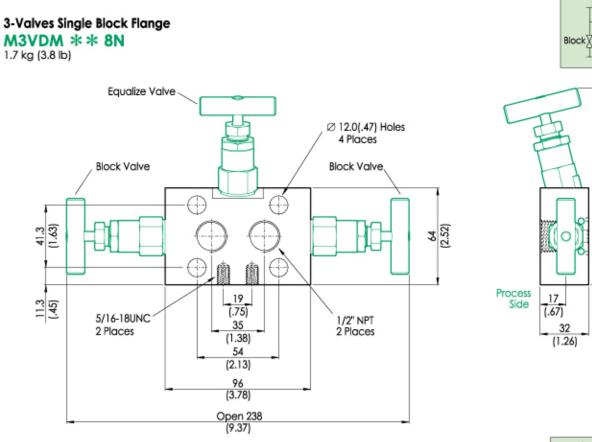
Process

Open 136 (5.35)

Instrument

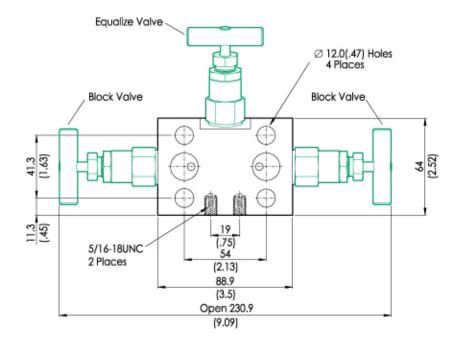
Side

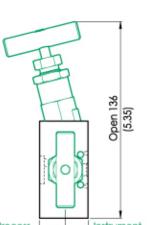
Block

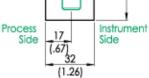


3-Valves Dual Block Flange M3V2DM **

1.8 kg (4.0 lb)



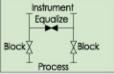


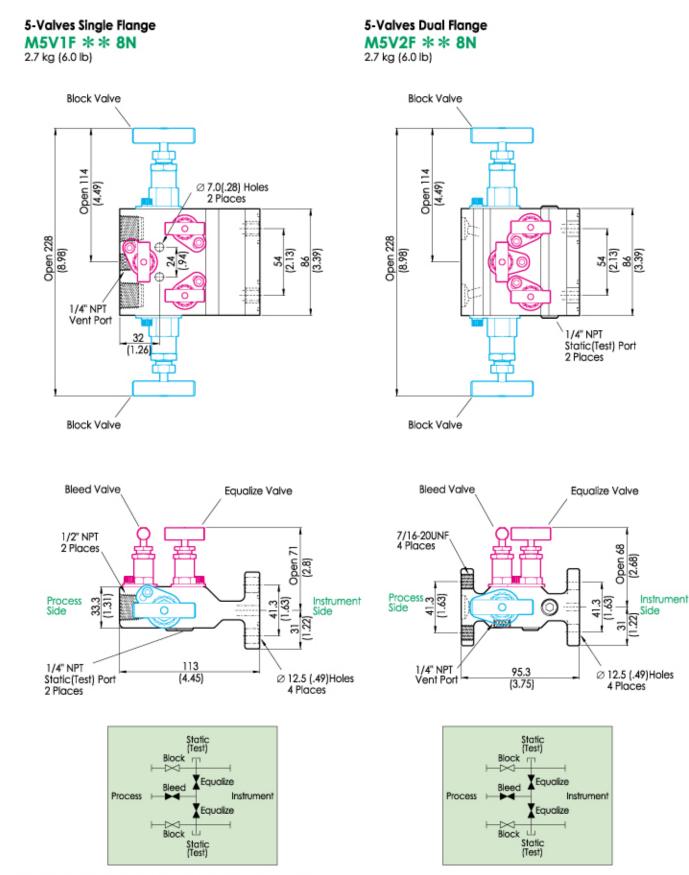


All dimensions are in milimeters (inchs) reference only, subject to change.









All dimensions are in milimeters(inchs) reference only, subject to change.



M Series

Bleed X

Instrument

Equalize

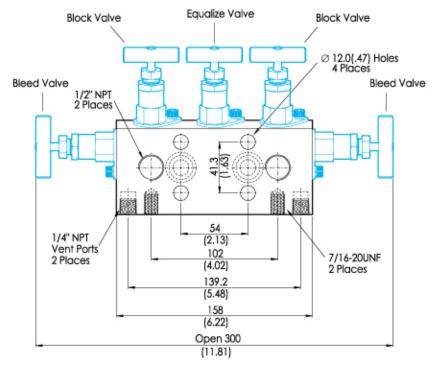
Block X

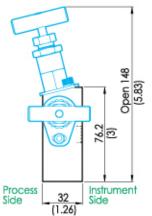
Process

Bleed

5-Valves Single Block Flange M5VDM ** 8N

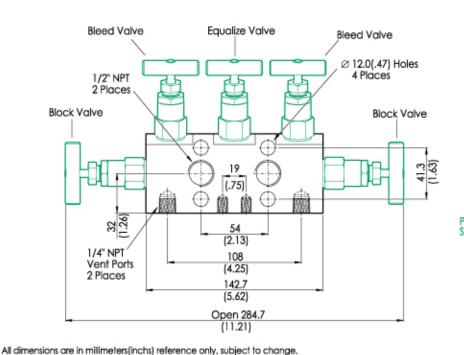
3.3 kg (7.3 lb)

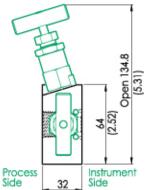




5-Valves Singl	e Blo	ck Flange	"A"style
M5VDMA :	**	8N	

2.7 kg (6.0 lb)





(1.26)

Bleed



æ

Instrument Equalize

Block X

Process

Bleed

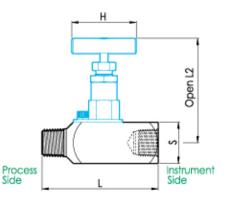
HY-LOK CORPORATION



GV • • MF8N12N Male NPT 1/2" Female NPT 3/4"

Gauge Valves Block Process -GV End Connection Dimensions Part No. Process Instrument L2 Н L GV * * MF8N Male NPT 1/2" Female NPT 1/2" 90 87(3.43) GV * * MF12N8N Male NPT 3/4" Female NPT 1/2" 50 (3.54) 104.5(4.11) (1.97) 35(1.38) 0.7 / 1.5

Female NPT 1/2" Female NPT 1/2" 84(3.3) 87(3.43)



Root Valves GRV

GV * * F8N

	Instrument
--	------------

- Instrument

S

32(1.26) 0.0 / 1.5 0.6/1.3

32(1.26) 0.7 / 1.5

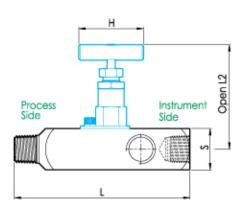
Weight (kg / lb)

Part No.	End Con		Weight				
Full No.	Process	Instrument	L	L2 H		S	(kg / lb)
GRV * * MF8N	Male NPT 1/2"	Female NPT 1/2"	12/	87(3.43)	50 (1.97)	32(1.26)	0.9 / 2.0
GRV * * MF12N8N			136 (5.35)				1.0/2.2
GRV * * MF8N12N	Male NPT 1/2"	Female NPT 3/4"		104.5(4.11)		35(1.38)	1.0/2.2
GRV**F8N	Female NPT 1/2"	Female NPT 1/2"	102(4.02)	87(3.43)		32(1.26)	0.8 / 1.8

38.1 (1.5)

36.2

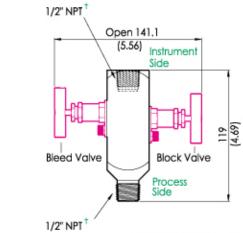
1/4" NPT Vent Ports



Gauge 2-Valves

GV2 ** - MF8N

1.2 kg (2.6 lb)



Note : "+" available in other size upon request.

All dimensions are in millimeters(inchs) reference only, subject to change.



HY-LOK CORPORATION

Instrument Bleed

Block Process

Accessories

Seals Kit



contains flange seal and stainless steel bolts

Oval Flange kits

(Concentric / Eccentric)



contains oval flanges, seals & bolts

Eccentric and Concentric Pipe Nipples



Calibration Fittings



Gauge Adapter



Vent plugs, Bleed & Purge Valves



Kit Ordering Number

Basic Ordering Number	Seal Material	Temperature Range	*For a complete ordering number,
KIT- * -V	Viton	-20°F ~ 250°F (-28°C ~ 121°C)	add the desired valve and body shape designator to the basic
KIT- * -G	Grafoil	-65°F ~ 1000°F (65°C ~ 537°C)	ordering number. (See index and ordering information)
KIT- * -P	PTFE	-65°F ~ 450°F (-53°C ~ 232°C)	e.g KIT-M3V1F-V (3-Valve, Single flange, viton seals)

Oval flanges used to connect flange to flange manifold. Standard connection is female NPT 1/2". The center of eccentric flange is offset 1.6mm(1/16") from the centerline of bolt holes. They are available in stainless steel only.

Basic Ordering Number KIT-OCF-8N*/ \$316 - Concentric Flange female NPT 1/2" KIT-OEF-8N*/ \$316 - Eccentric Flange female NPT 1/2"

*For a complete ordering number, add the desired seal material designator to the basic ordering Numner. e.g. KIT-OCF-8NG / \$316

Concentric and Eccentric pipe nipples have 1/2" male NPT and 76mm(3") length. The ends of eccentric pipe nipples are offset 1.6mm(1/16") from centerline. They are available in 316 stainless steel and carbon steel.

Ordering number H-SCNL-8N / \$316 - Concentric pipe nipple male NPT 1/2", Stainless Steel H-SENL-8N / STEL - Eccentric pipe nipple male NPT 1/2", Carbon Steel

Calibration fittings connect directly to the bleed port of differential pressure transmitter. They are available in 316 stainless steel only.

Ordering number CCF4-1U / S316 - Hy-Lok 1/4" - 1/4-28UNF thread CCF4-2U / S316 - Hy-Lok 1/4" - 5/16-24UNF thread

Gauge adapters connect to gauge for calibration. They are available in 316 stainless steel and carbon steel.

Ordering number H-MFAH8N-6G-G / \$316 - Male NPT 1/2" - Female ISO 228/1 3/8", Stainless steel H-MFAH-4NG-G / STEL - Male NPT 1/4" - Female ISO 228/1 1/4", Carbon steel

Bleed & Purge valves used to vent to atmosphere and to assist in calibration They are available in 316 stainless steel only

Ordering number VPM -* / \$316 - Vent plug Male NPT Pipe Thread BLV -* BT / \$316 - Bleed valve Male NPT Pipe Thread PVM -* / \$316 - Purge valve Male NPT Pipe Thread * For a complete ordering number, add the desired size designator 8N(1/2"NPT) or 4N(1/4"NPT) e.g VPM - 4N/\$316 Vent plug Male 1/4"NPT

the lake

Mounting Kit

Mounting kit & Accessories Application

1.



Mounting kit consist of Brackets, U-bolts, Bolt, Nut & Washer. Mounting bracket can be vetically or horizontally mounted. Kit material is available stainless steel and zinc plated carbon steel.

Kit Ordering Number KIT-MMB / \$304 (in case of carbon steel, KIT-MMB/ STEL)

Maintenance Kits (See page 3)

Basic Ordering No.	Bonnet Type	Component		Stem Tip Shape	Designator	Packing Mat'l	Designator
KIT-MAV-SET- **	MAV	Bonnet, Stem tip, Stem, Packing, Packing Washer, Packing bolt, Handle, Lock nut, Set screw,		Vee	V	PTFE	Т
KIT-MBV-SET- **	MBV			Ball	В	Grafoil [®]	G
KIT-MCV-SET- **	MCV	Loking plate (pin)					

*For a complete ordering number, add the desired stem tip shape & packing material designator as a suffix to the maintenance kit basic ordering number

e.g : KIT-MBV-SET-VT (Vee tip, PTFE stem packing)

Ordering Infomation

