



Manufacturer of Controls & Control Valves for Industrial Refrigeration

Made in India for the world Since 1978

HIGH PRESSURE VALVE SERIES



**MAXIMUM
WORKING
PRESSURE
55 BAR**



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HIGH PRESSURE STOP VALVES

TYPE MHPSV

INTRODUCTION

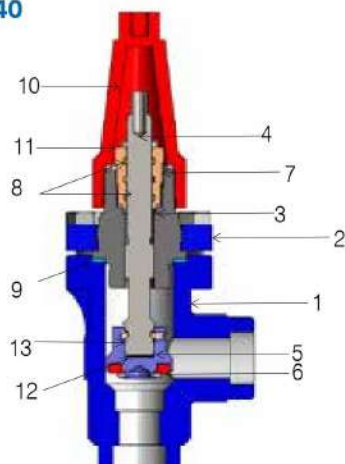
The MHPSV Stop Valves are refrigerant shut-off valves designed to be socket-welded or butt-welded directly to steel piping, thereby eliminating potential leaky flanges or threaded joints and simplifying installation. These valves fit all requirements of the latest refrigeration technology and have desired flow characteristics with a low pressure drop design. The MHPSV has specialised internal back- seating support which allows the shaft seal (packing gland) to be replaced while the valve is still under working condition. Interchangeable handwheel or seal cap available. These valves are available in angle and globe types. The Teflon seat lends durability to the seating surface.

DESIGN FEATURES

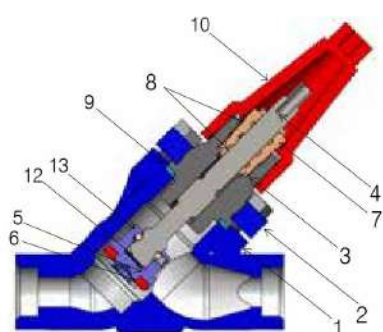
- Maximum working pressure: 798 psi g (55 bar g)
- Fluid temperature range: -60°C to + 150°C (-76°F to 302°F)
- Application: Ammonia, Fluorocarbons, Carbon Dioxide
- Material: Body: LCC A352 Cast Steel Body
- Internals: SS304
- Seat: PTFE
- Connections: DN10-40 – Socket/Butt Weld
- DN50-300 – Butt Weld.
- Reliable Back Seating.

MATERIAL SPECIFICATION

MHPSV 10-40



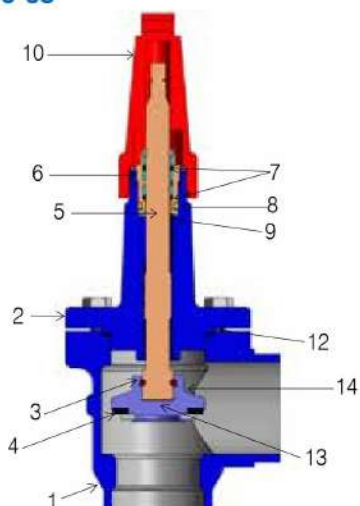
MHPSV 10-40 ANG



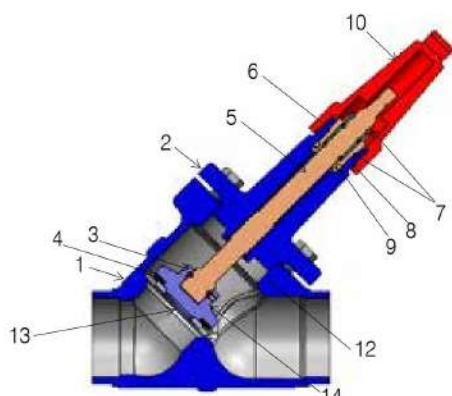
MHPSV 10-40 STR

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	G20Mn5QT
2	Bonnet flange	Steel	G20Mn5QT
3	Bonnet insert	Steel	230M07
4	Spindle	Stainless steel	X5CrNi18-10
5	Cone	Steel	X5CrNi18-10
6	Cone seal	Teflon	PTFE
7	Packing gland	Stainless steel	X5CrNi18-10
8	O ring in packing gland	Rubber	Neoprene
9	Gasket	Non asbestos, Non metallic	
10	Seal cap	Aluminium	
11	Gasket for seal cap	Nylon	Nylon 6
12	Disk spring	Steel	
13	Ball	Steel	X20Cr13
14	Handwheel	Stainless Steel	GX5CrNi19-10

MHPSV 50-65



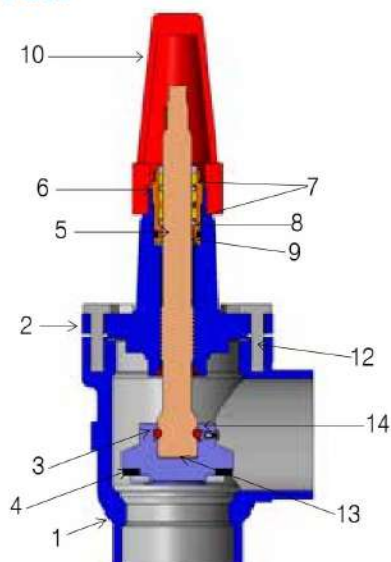
MHPSV 50-65 ANG



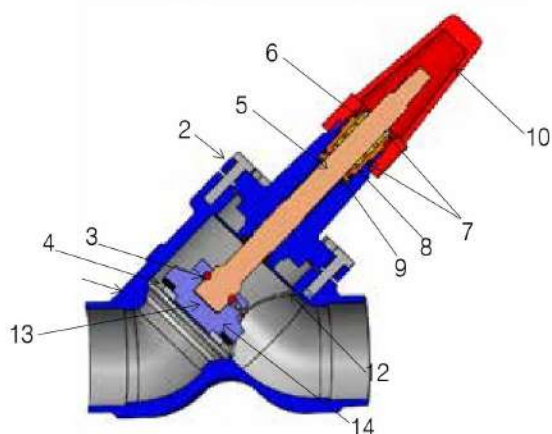
MHPSV 50-65 STR

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	G20Mn5QT
2	Valve bonnet	Steel	G20Mn5QT
3	Cone	Stainless steel	X5CrNi18-10
4	Cone seal	Teflon	PTFE
5	Spindle	Stainless steel	X5CrNi18-10
6	Packing gland	Stainless steel	X5CrNi18-10
7	O ring in packing gland	Rubber	Neoprene
8	O ring on packing gland	Rubber	Neoprene
9	Packing washer	Stainless steel	X5CrNi18-10
10	Seal cap	Aluminium	AL LM24
11	Gasket for seal cap	Non asbestos, Non metallic	NYLON 6
12	Gasket	Non asbestos, Non metallic	
13	Disk spring	Steel	
14	Ball	Steel	
15	Handwheel	Stainless Steel	GX5CrNi19-10

MHPSV 80-200



MHPSV 80-200 ANG



MHPSV 80-200 STR

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	G20Mn5QT
2	Valve bonnet	Steel	G20Mn5QT
3	Cone	Stainless steel	X5CrNi18-10
4	Cone seal	Teflon	PTFE
5	Spindle	Stainless steel	X5CrNi18-10
6	Packing gland	Stainless steel	X5CrNi18-10
7	O ring in packing gland	Rubber	Neoprene
8	O ring on packing gland	Rubber	Neoprene
9	Packing washer	Stainless steel	X5CrNi18-10
10	Seal cap	Aluminium	AL LM24
11	Gasket for seal cap	Non asbestos, Non metallic	NYLON 6
12	Gasket	Non asbestos, Non metallic	
13	Disk spring	Steel	
14	Ball	Steel	
15	Handwheel	Stainless Steel	GX5CrNi19-10

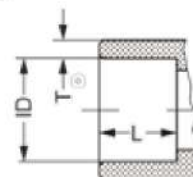
CONNECTIONS

Size		ID mm	T mm	ID Inch	T Inch	L mm	L Inch	K _v -angle m ³ /h	K _v -straight m ³ /h
mm	Inch								

Socket welding ANSI (B16.11)

10	3/8	17.3	3.1	0.68	0.12	8	0.31	4.5	3.2
15	1/2	21.8	6	0.858	0.235	10	0.39	7.0	5.0
20	3/4	27.2	4.6	1.071	0.181	13	0.51	14.6	10.5
25	1	33.9	7.2	1.335	0.284	13	0.51	24.8	17.5
32	1 1/4	42.7	6.1	1.743	0.24	13	0.51	42.6	30.0
40	1 1/2	48.8	6.6	1.921	0.26	13	0.51	45.2	32.0

SOC

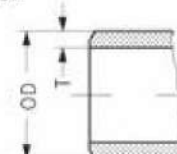


Size		OD mm	T mm	OD Inch	T Inch	K _v -angle m ³ /h	K _v -straight m ³ /h
mm	Inch						

Butt-weld ANSI (B 36.10 Schedule 40)

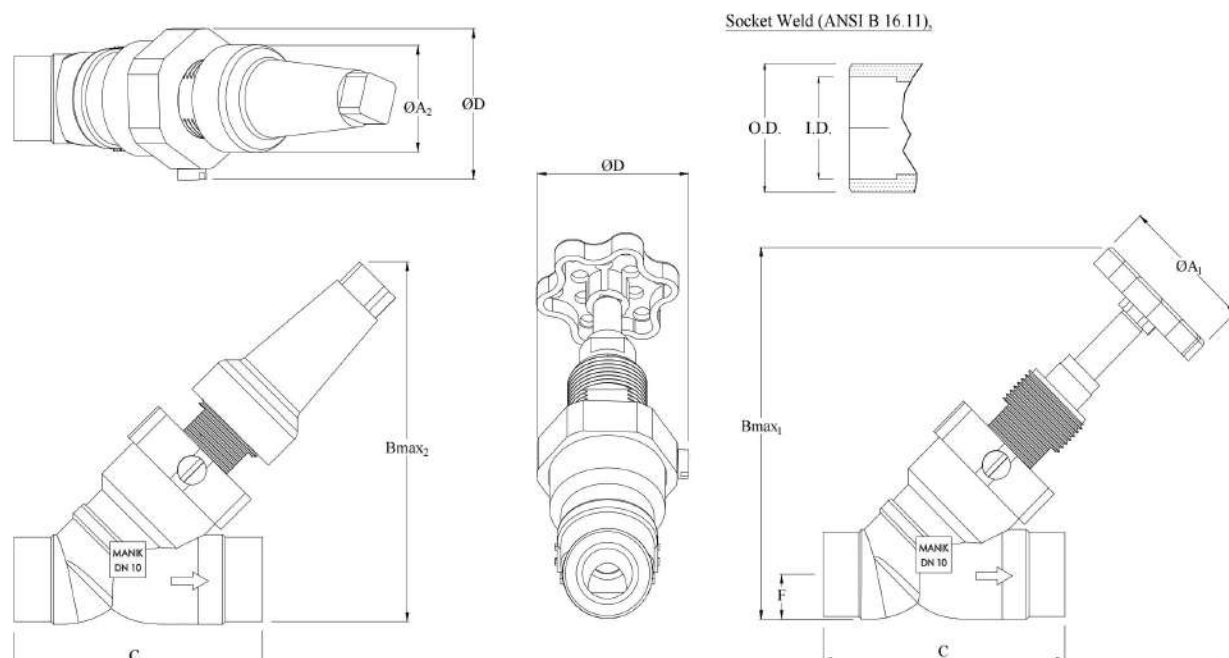
50	2	60.3	3.9	2.37	0.15	80	67.5
65	2 1/2	73.0	5.2	2.87	0.20	120	97.5
80	3	88.9	5.5	3.50	0.22	182	152.5
100	4	114.3	6.0	4.50	0.24	313	278.5
125	5	141.3	6.6	5.56	0.26	514	470.5
150	6	168.3	7.1	6.63	0.28	785	597.5
200	8	219.1	8.2	8.63	0.32	1168	1024.5
250	10	273	6.7	10.7	0.26	1610	N.A.
300	12	323.9	7.1	12.75	0.28	2082	N.A.

ANSI



DIMENSIONS :

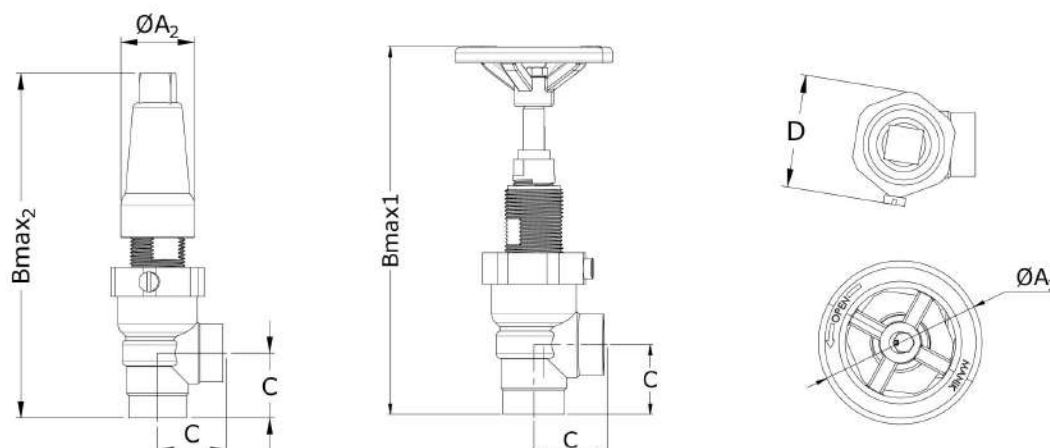
MHPSV 10 SOC GLOBE



Socket Weld ANSI (B 16.11), DN 10 (3/8 in.)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPSV 10	23.5	17.3	60	38	110	105	61	42	13

MHPSV 10 SOC ANG

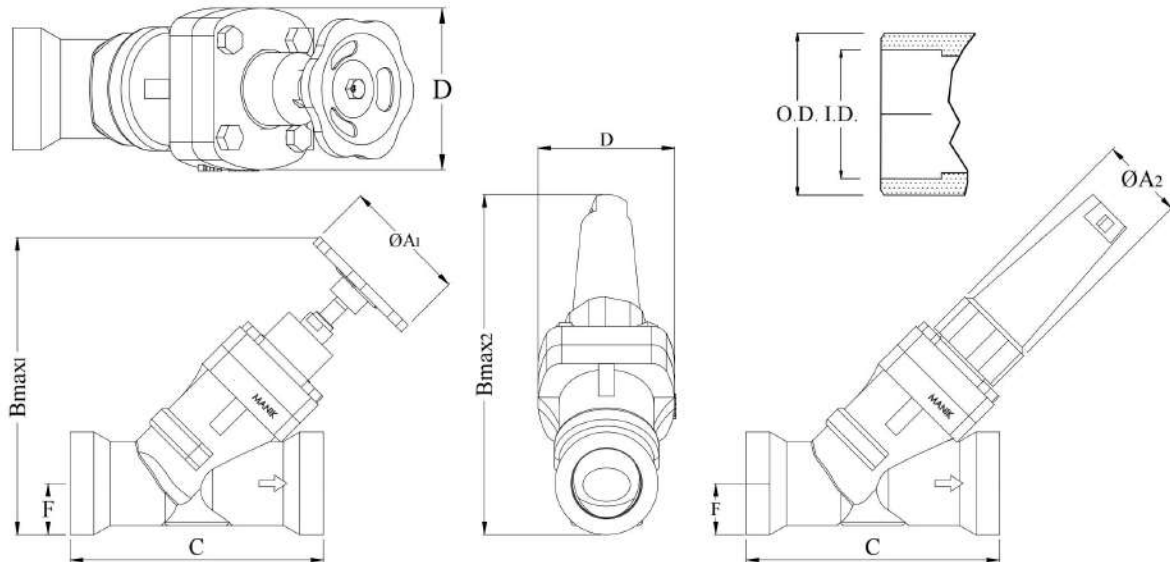


Socket Weld ANSI (B 16.11), DN 10 (3/8 in.)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPSV 10	23.5	17.3	30	30	141	141	26.5	42

MHPSV 15-40 SOC GLOBE

Socket Weld (ANSI B 16.11),

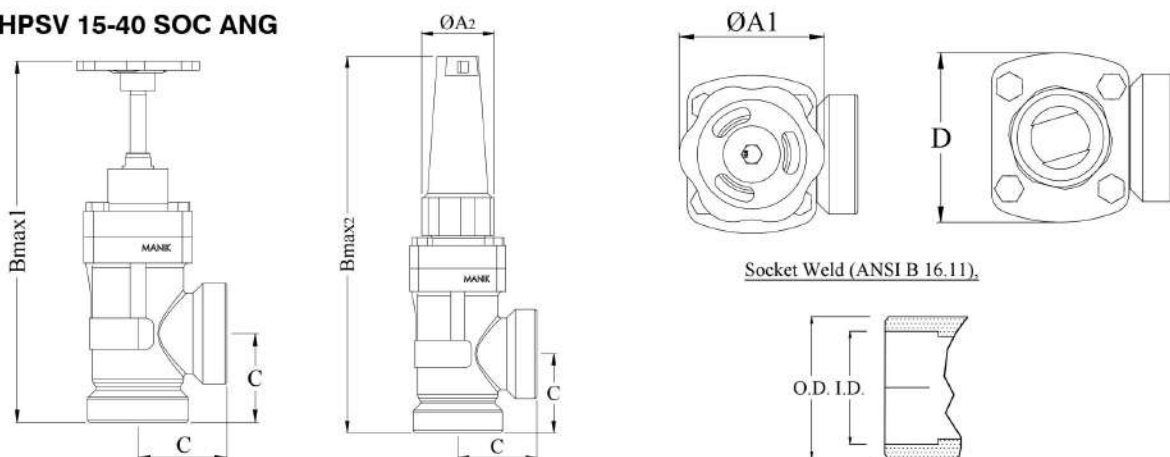


Socket Weld ANSI (B 16.11), DN 15-40 (½ - 1½ in.)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPSV 15	33.8	21.8	60	38	160	150	121	72	16.9
MHPSV 20	36.4	27.2	60	38	160	150	121	72	18.2
MHPSV 25	48.3	33.9	80	50	235	270	160	90	24.2
MHPSV 32	54.9	42.7	80	50	235	270	160	90	27.5
MHPSV 40	62.0	48.8	80	50	235	270	160	90	31.0

MHPSV 15-40 SOC ANG

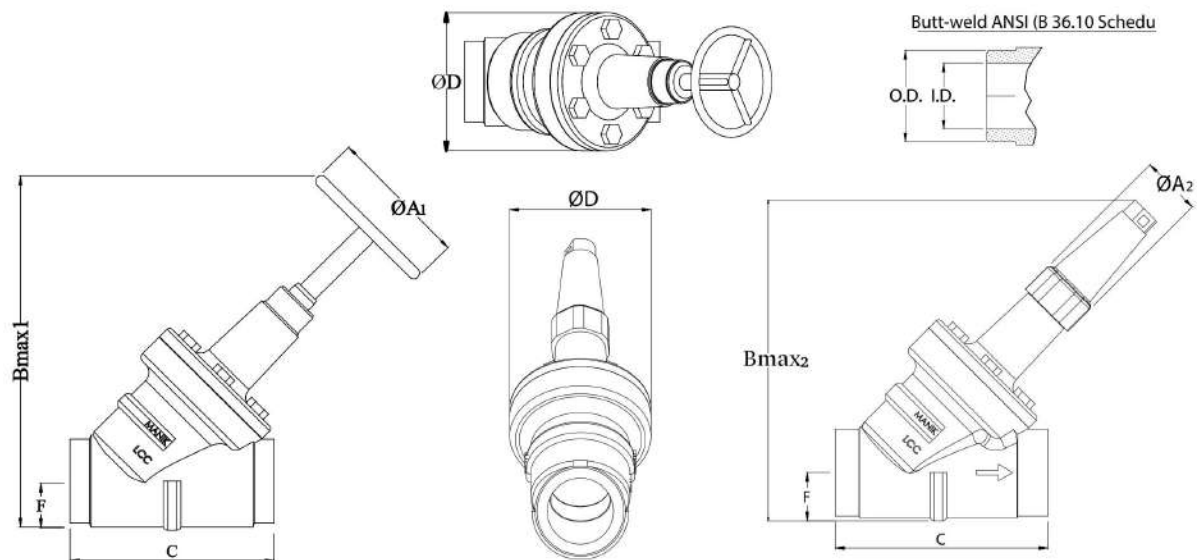
Socket Weld (ANSI B 16.11),



Socket Weld ANSI (B 16.11), DN 15-40 (½ - 1½ in.)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPSV 15	33.8	21.8	60	38	180	192	45.0	72
MHPSV 20	36.4	27.2	60	38	180	192	45.0	72
MHPSV 25	48.3	33.9	80	50	235	270	55.0	90
MHPSV 32	54.9	42.7	80	50	235	270	55.0	90
MHPSV 40	62.0	48.8	80	50	235	270	55.0	90

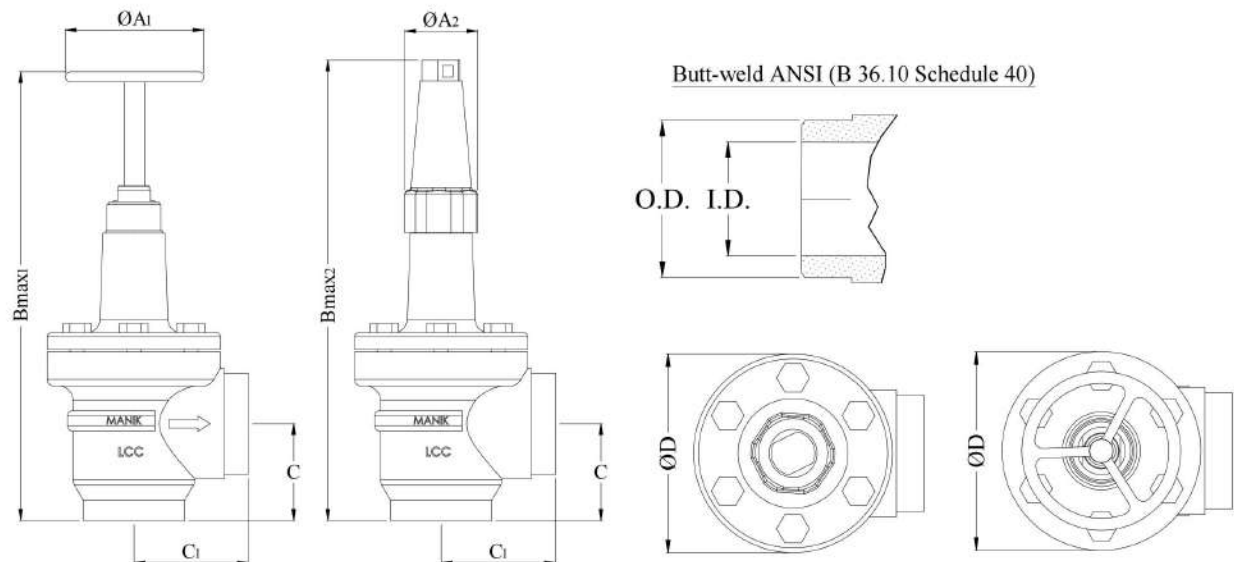
MHPSV 50-65 BW GLOBE



Butt-weld ANSI (B 36.10 Schedule 40), DN 50 - 65 (2 - 2½ in.)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPSV 50	60.3	52.5	100	50	260	265	168	110	32
MHPSV 65	73.0	62.6	100	50	285	290	184	125	40

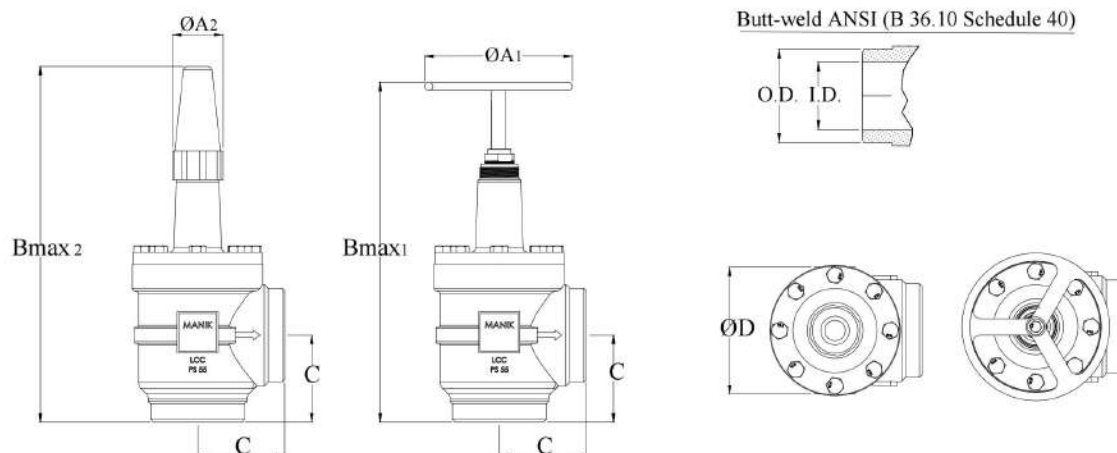
MHPSV 50-65 BW ANG



Butt-weld ANSI (B 36.10 Schedule 40)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. C ₁ (mm)	DIM. D (mm)
MHPSV 50	60.3	52.5	100	50	284	315	60.0	72.5	110
MHPSV 65	73.0	62.6	100	50	310	335	70	82.5	125

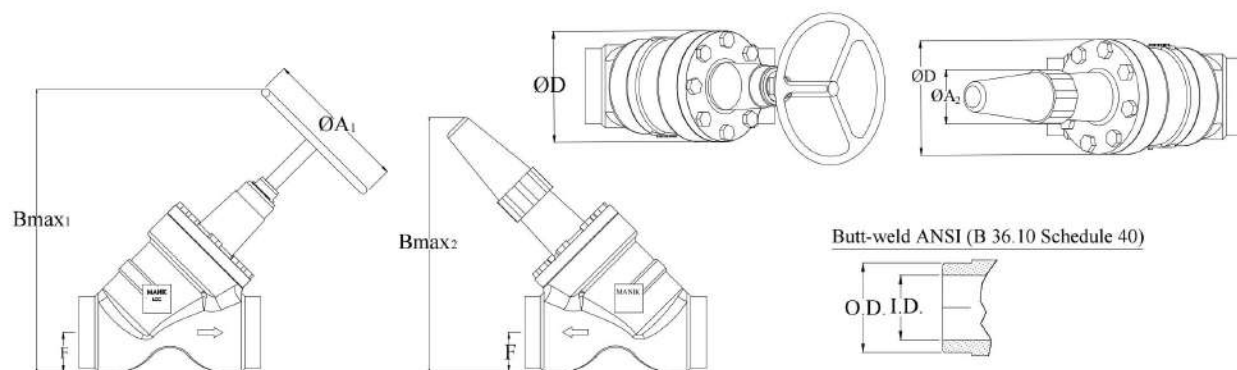
MHPSV 80-200 BW ANG



Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 200 (3 - 8 in.) ANG

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPSV 80	88.9	77.9	200	58	388	373	90	129
MHPSV 100	114.3	102.3	250	58	437	432	106	156
MHPSV 125	141.3	128.1	315	74	533	517	128	193
MHPSV 150	168.3	154.1	315	74	568	564	145	219
MHPSV 200	219.1	202.7	400	86	678	675	180	276

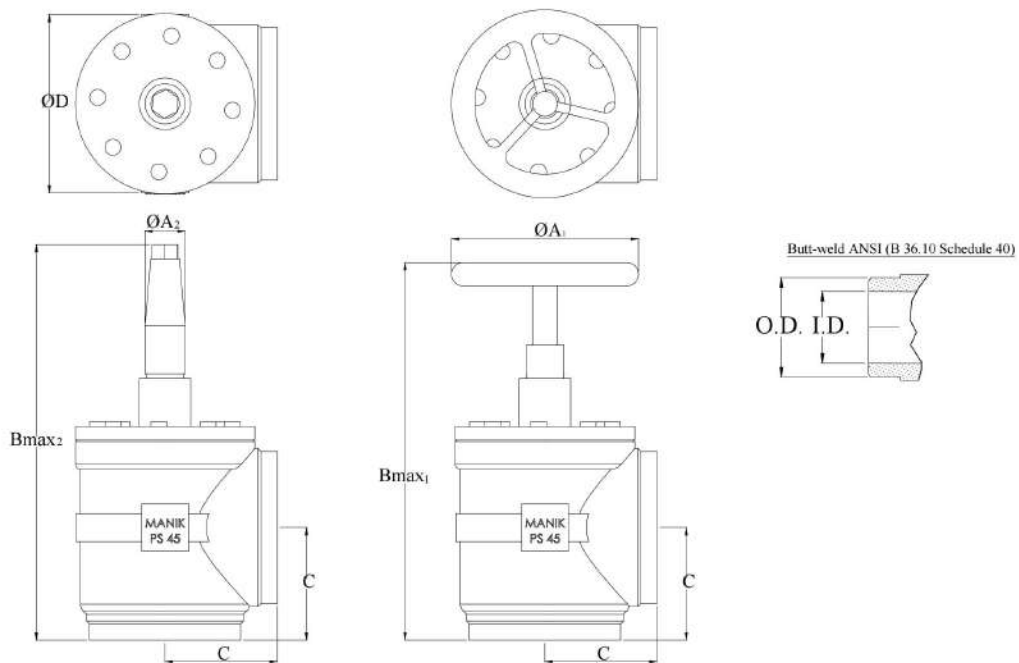
MHPSV 80-200 BW GLOBE



Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 200 (3 - 8 in.) GLOBE

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPSV 80	88.9	77.9	200	58	367	322	216	129	48
MHPSV 100	114.3	102.3	250	58	443	375	264	156	60
MHPSV 125	141.3	128.1	315	74	538	456	322	193	74
MHPSV 150	168.3	154.1	315	74	594	505	370	219	91
MHPSV 200	219.1	202.7	400	86	726	613	464	276	117

MHPSV 250-300 BW ANG



Butt-weld ANSI (B 36.10 Schedule 40), DN 250-300 ANG

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPSV 250	273	260.4	400	86	747	785	210	334
MHPSV 300	323.9	303.7	500	86	852	845	240	384

ORDERING INFO

GLOBE		Size		End Connection	Weight (Kg)
Hand Wheel	Cap	Inch	mm		
MHPSV-10-G-H-S	MHPSV-10-G-C-S	$\frac{3}{8}$ "	10	Socket Weld	1.1
MHPSV-10-G-H-B	MHPSV-10-G-C-B			Butt Weld	1.2
MHPSV-15-G-H-S	MHPSV-15-G-C-S	$\frac{1}{2}$ "	15	Socket Weld	2.6
MHPSV-15-G-H-B	MHPSV-15-G-C-B			Butt Weld	2.4
MHPSV-20-G-H-S	MHPSV-20-G-C-S	$\frac{3}{4}$ "	20	Socket Weld	2.6
MHPSV-20-G-H-B	MHPSV-20-G-C-B			Butt Weld	2.4
MHPSV-25-G-H-S	MHPSV-25-G-C-S	1"	25	Socket Weld	4.6
MHPSV-25-G-H-B	MHPSV-25-G-C-B			Butt Weld	4.2
MHPSV-32-G-H-S	MHPSV-32-G-C-S	1- $\frac{1}{4}$ "	32	Socket Weld	4.6
MHPSV-32-G-H-B	MHPSV-32-G-C-B			Butt Weld	4.2
MHPSV-40-G-H-S	MHPSV-40-G-C-S	1- $\frac{1}{2}$ "	40	Socket Weld	4.6
MHPSV-40-G-H-B	MHPSV-40-G-C-B			Butt Weld	4.4
MHPSV-50-G-H-B	MHPSV-50-G-C-B	2"	50	Butt Weld	7.4
MHPSV-65-G-H-B	MHPSV-65-G-C-B	2- $\frac{1}{2}$ "	65	Butt Weld	9.5
MHPSV-80-G-H-B	MHPSV-80-G-C-B	3"	80	Butt Weld	14.7
MHPSV-100-G-H-B	MHPSV-100-G-C-B	4"	100	Butt Weld	25
MHPSV-125-G-H-B	MHPSV-125-G-C-B	5"	125	Butt Weld	40.8
MHPSV-150-G-H-B	MHPSV-150-G-C-B	6"	150	Butt Weld	62.5
MHPSV-200-G-H-B	MHPSV-200-G-C-B	8"	200	Butt Weld	112

ANGLE		Size		End Connection	Weight (Kg.)
Hand Wheel	Cap	Inch	mm		
MHPSV-10-A-H-S	MHPSV-10-A-C-S	$\frac{3}{8}$ "	10	Socket Weld	0.9
MHPSV-10-A-H-B	MHPSV-10-A-C-B			Butt Weld	0.9
MHPSV-15-A-H-S	MHPSV-15-A-C-S	$\frac{1}{2}$ "	15	Socket Weld	2.1
MHPSV-15-A-H-B	MHPSV-15-A-C-B			Butt Weld	1.9
MHPSV-20-A-H-S	MHPSV-20-A-C-S	$\frac{3}{4}$ "	20	Socket Weld	2.1
MHPSV-20-A-H-B	MHPSV-20-A-C-B			Butt Weld	1.9
MHPSV-25-A-H-S	MHPSV-25-A-C-S	1"	25	Socket Weld	3.6
MHPSV-25-A-H-B	MHPSV-25-A-C-B			Butt Weld	3.4
MHPSV-32-A-H-S	MHPSV-32-A-C-S	1- $\frac{1}{4}$ "	32	Socket Weld	3.6
MHPSV-32-A-H-B	MHPSV-32-A-C-B			Butt Weld	3.4
MHPSV-40-A-H-S	MHPSV-40-A-C-S	1- $\frac{1}{2}$ "	40	Socket Weld	3.6
MHPSV-40-A-H-B	MHPSV-40-A-C-B			Butt Weld	3.4
MHPSV-50-A-H-B	MHPSV-50-A-C-B	2"	50	Butt Weld	5.6
MHPSV-65-A-H-B	MHPSV-65-A-C-B	2- $\frac{1}{2}$ "	65	Butt Weld	7.4
MHPSV-80-A-H-B	MHPSV-80-A-C-B	3"	80	Butt Weld	13.3
MHPSV-100-A-H-B	MHPSV-100-A-C-B	4"	100	Butt Weld	21
MHPSV-125-A-H-B	MHPSV-125-A-C-B	5"	125	Butt Weld	33.8
MHPSV-150-A-H-B	MHPSV-150-A-C-B	6"	150	Butt Weld	38.3
MHPSV-200-A-H-B	MHPSV-200-A-C-B	8"	200	Butt Weld	80
MHPSV-250-A-H-B	MHPSV-250-A-C-B	10"	250	Butt Weld	123
MHPSV-300-A-H-B	MHPSV-300-A-C-B	12"	300	Butt Weld	175



HIGH PRESSURE REGULATING VALVES

TYPE : MHPRG-A AND MHPRG-B

INTRODUCTION

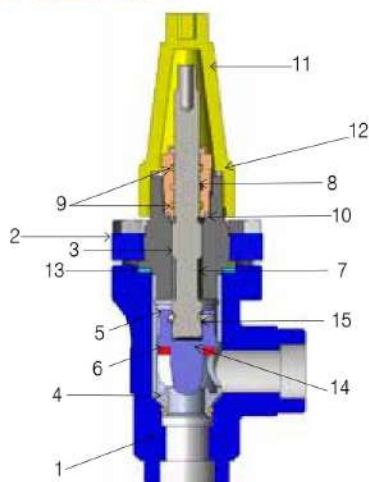
There are two types of MHPRG hand regulating valve MHPRG-A and MHPRG-B are ideal for metering or flashing expansion of liquid refrigerants. These valves are available in angle and globe types. These valves have stainless steel stems with back seating for seal replacement under working conditions. MHPRG valve available in two variants- MHPRG-A for liquid expansion lines and MHPRG-B for liquid line flow regulation purpose. These valves are specifically designed as per international guidelines for refrigerating installations, specific flow conditions, and line characteristics. The MHPRG can also be used as a stop valve when the regulating function is not required. Interchangeable handwheel or seal cap available. Yellow seal caps or handwheels distinguish them from shut-off valves.

DESIGN FEATURES

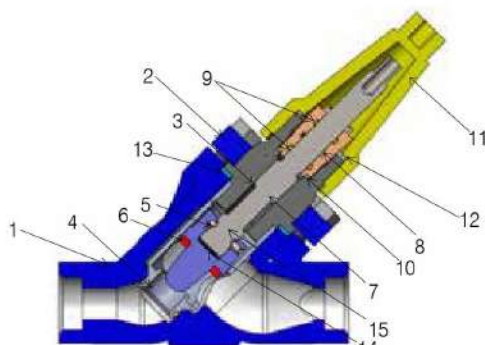
- Maximum working pressure: 798 psi g (55 bar g)
- Fluid temperature range: -60°C to + 150°C (-76°F to 302°F)
- Application: Ammonia, Fluorocarbons, Carbon Dioxide
- Material: Body: LCC A352 Cast Steel Body
- Valve Cone: SS304
- Valve Stem: SS304
- Packing Gland: SS304
- Seat: PTFE
- Connections: DN10-100 – Socket/Butt Weld
- Reliable Back Seating

MATERIAL SPECIFICATION

MHPRG-A & MHPRG-B



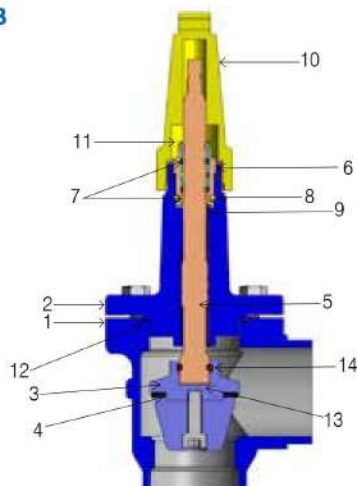
MHPRG-A & B 10-40 ANG



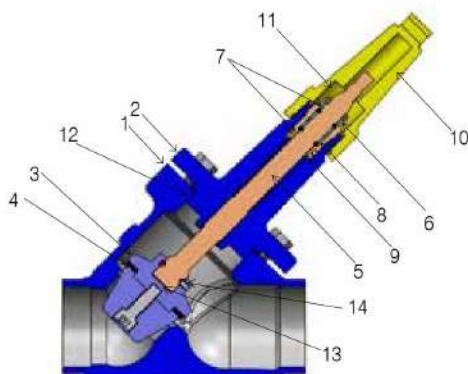
MHPRG-A & B 10-40 STR

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	G20Mn5QT
2	Bonnet flange	Steel	G20Mn5QT
3	Bonnet insert	Steel	X5CrNi18-10
4	External seal	Stainless steel	X12Cr13
5	Cone	Steel	X5CrNi18-10
6	Cone seal	Teflon	PTFE
7	Spindle	Stainless steel	X5CrNi18-10
8	Packing gland	Stainless steel	X5CrNi18-10
9	O ring	Rubber	Neoprene
10	Packing washer	Aluminium	
11	Seal Cap	Aluminium	
12	Gasket for seal cap	Nylon	Nylon 6
13	Gasket	Non Asbestos	
14	Disk	Steel	
15	Ball	Steel	X20Cr13
16	Handwheel	Stainless Steel	GX5CrNi19-10

MHPRG-B



MHPRG-B 50-100 ANG



MHPRG-B 50-100 STR

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	G20Mn5QT
2	Bonnet	Steel	G20Mn5QT
3	Cone	Steel	X5CrNi18-10
4	Cone seal	Teflon	PTFE
5	Spindle	Stainless Steel	X5CrNi18-10
6	Packing gland	Stainless Steel	X5CrNi18-10
7	O ring	Rubber	Neoprene
8	O ring on packing gland	Rubber	Neoprene
9	Packing Washer	Aluminum	
10	Seal Cap	Aluminum	
11	Seal cap Gasket	Nylon	
12	Gasket	Non asbestos	
13	Disc Spring	Spring Steel	
14	Ball	Steel	X20Cr13
15	Handwheel	Stainless Steel	GX5CrNi19-10

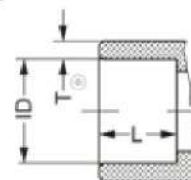
CONNECTIONS

	Size		OD mm	T mm	OD Inch	T Inch	L mm	L in	K _v -angle m ³ /h	K _v -straight m ³ /h	Cone
	mm	Inch									

Socket Welding ANSI (B16.11)

MHPRG-A / B	10	3/8	17.3	3.1	0.68	0.12	8	0.31	4.5	3.2	A and B
	15	1/2	21.8	6	0.858	0.235	10	0.39	7.0	5.0	
	20	3/4	27.2	7.6	1.071	0.299	13	0.51	14.6	10.5	
	25	1	33.9	7.2	1.335	0.284	13	0.51	24.8	17.5	
	32	1 1/4	42.7	6.1	1.743	0.24	13	0.51	42.6	30.0	
	40	1 1/2	48.8	6.6	1.921	0.26	13	0.51	45.2	32.0	

SOC

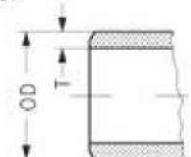


	Size		OD mm	T mm	OD Inch	T Inch	K _v -angle m ³ /h	K _v -straight m ³ /h
	mm	Inch						

Butt-weld ANSI (B 36.10 Schedule 40)

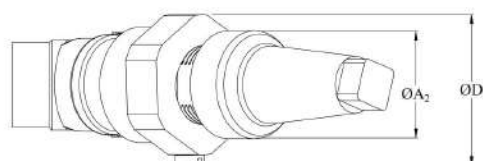
MHPRG-B	50	2	61.2	6.2	2.41	0.24	80	67.5
	65	2 1/2	73.0	5.2	2.87	0.20	120	97.5
	80	3	88.9	5.5	3.50	0.22	182	152.5
	100	4	114.3	6.0	4.50	0.24	313	278.5

ANSI

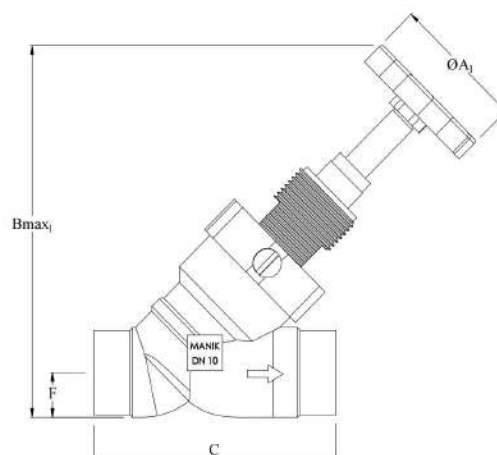
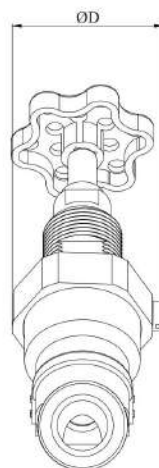
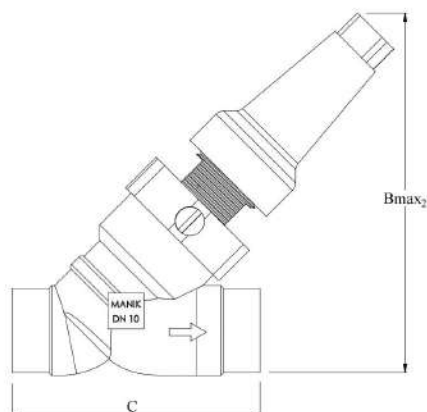
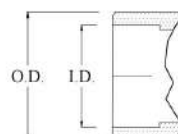


DIMENSIONS :

MHPRG 10 SOC GLOBE



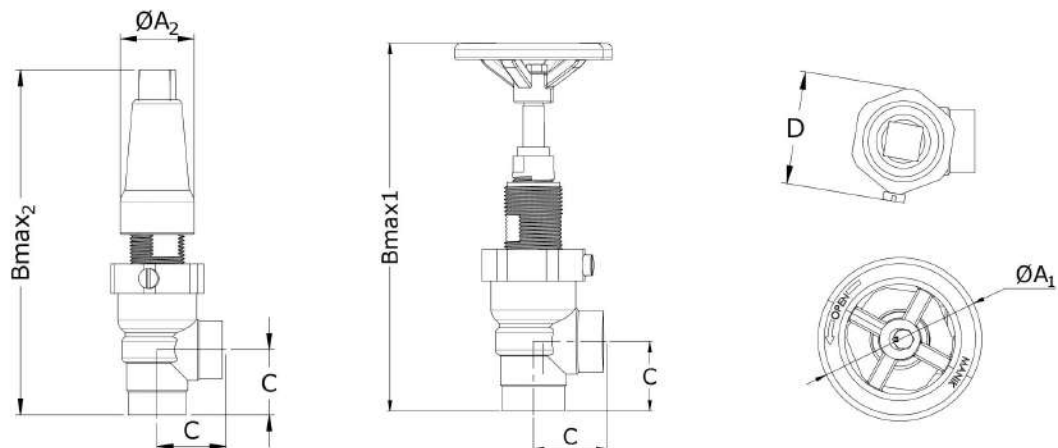
Socket Weld (ANSI B 16.11).



Socket Weld ANSI (B 16.11), DN 10 (3/8 in.)

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPRG 10	23.5	17.3	60	38	110	105	61	42	13

MHPRG 10 SOC ANG

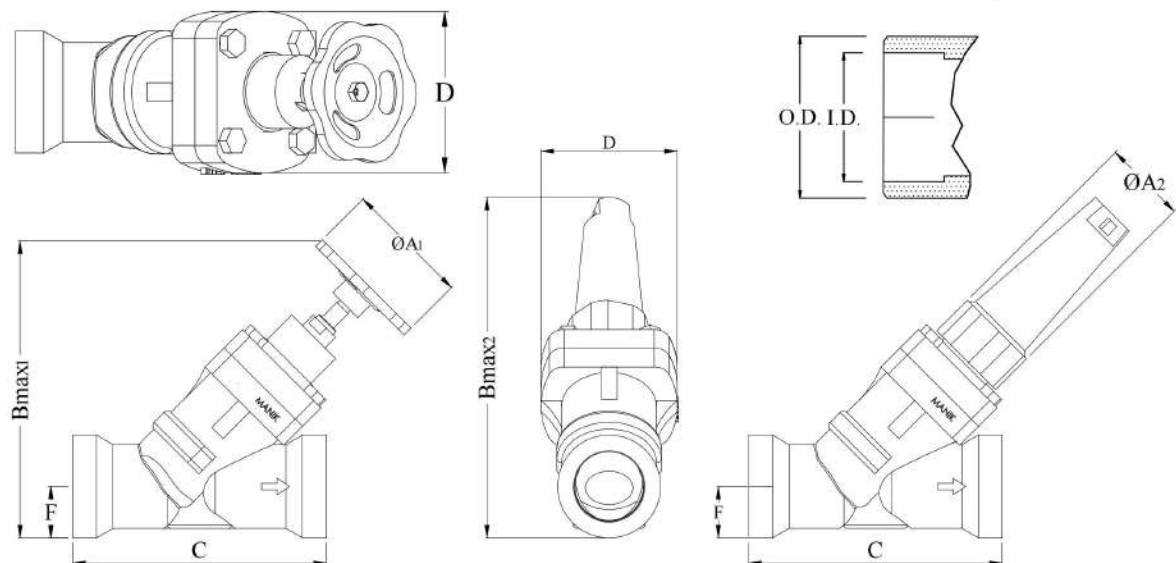


Socket Weld ANSI (B 16.11), DN 10 (3/8 in.)

DIMENSION MHPSV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPSRG 10	23.5	17.3	30	30	141	141	26.5	42

MHPRG 15-40 SOC GLOBE

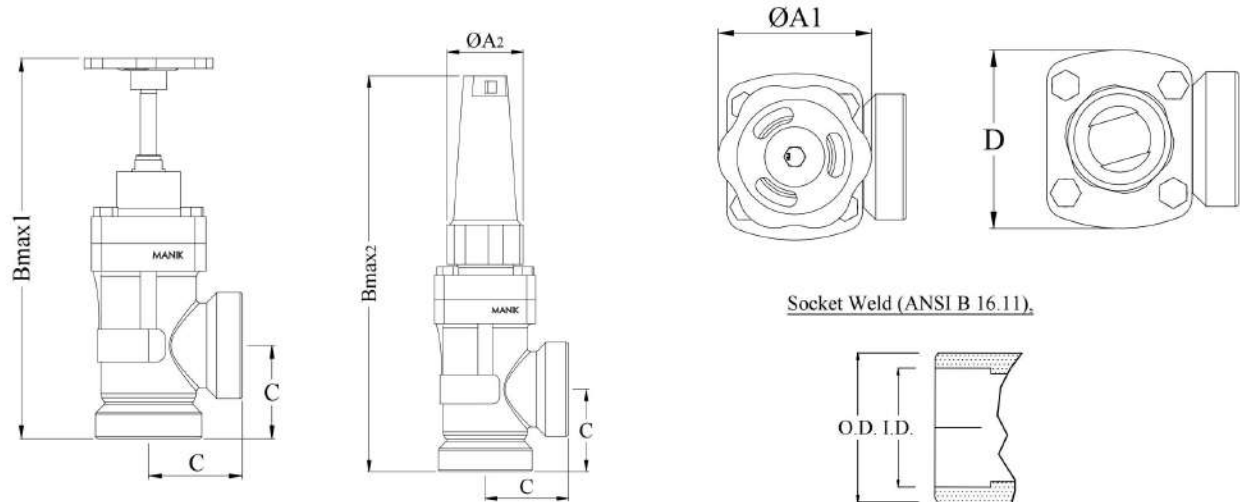
Socket Weld (ANSI B 16.11).



Socket Weld ANSI (B 16.11), DN 15-40 (1/2 - 1 1/2 in.)

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPRG 15	33.8	21.8	60	38	160	150	121	72	16.9
MHPRG 20	36.4	27.2	60	38	160	150	121	72	18.2
MHPRG 25	48.3	33.9	80	50	235	270	160	90	24.2
MHPRG 32	54.9	42.7	80	50	235	270	160	90	27.5
MHPRG 40	62.0	48.8	80	50	235	270	160	90	31.0

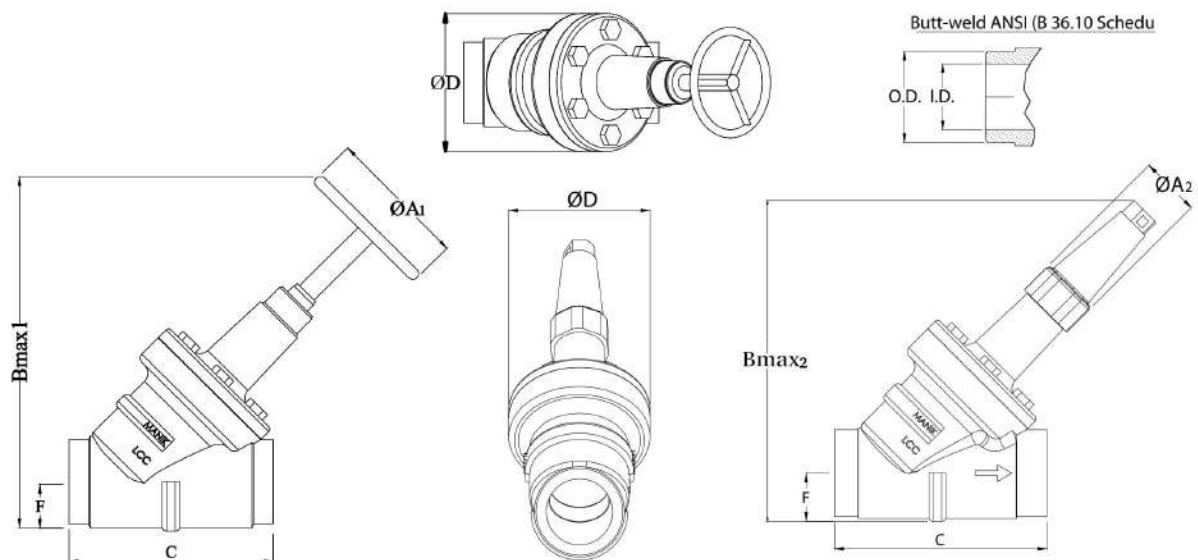
MHPRG 15-40 SOC ANG



Socket Weld ANSI (B 16.11), DN 15-40 (½ - 1½ in.)

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPRG 15	33.8	21.8	60	38	180	192	45.0	72
MHPRG 20	36.4	27.2	60	38	180	192	45.0	72
MHPRG 25	48.3	33.9	80	50	235	270	55.0	90
MHPRG 32	54.9	42.7	80	50	235	270	55.0	90
MHPRG 40	62.0	48.8	80	50	235	270	55.0	90

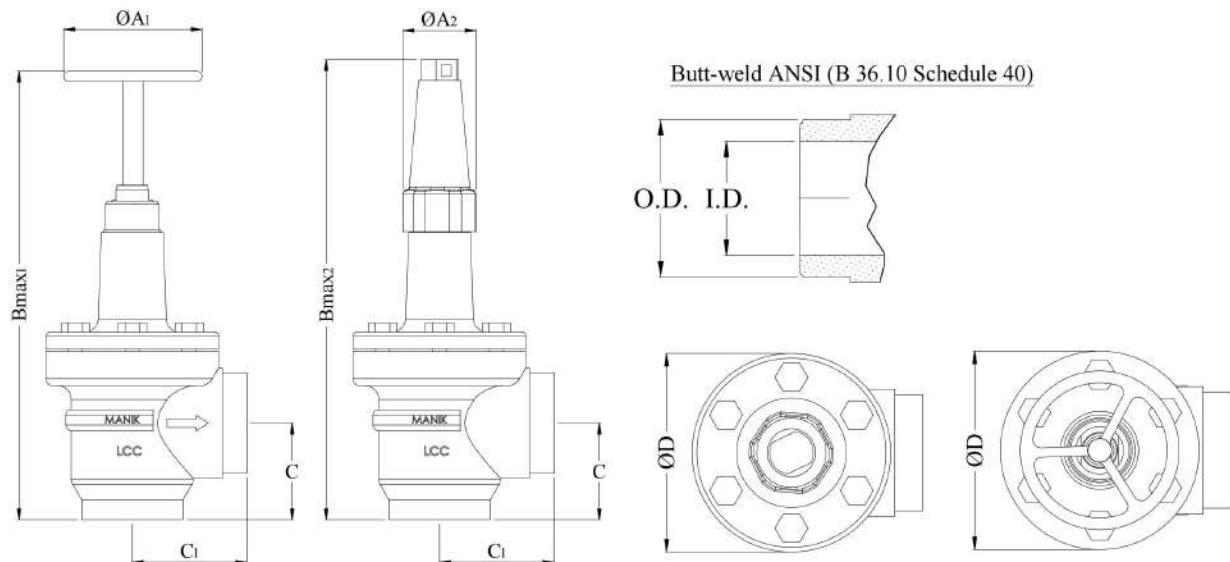
MHPRG 50-65 BW GLOBE



Butt-weld ANSI (B 36.10 Schedule 40), DN 50 - 65 (2 - 2½ in.)

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPRG 50	60.3	52.5	100	50	260	250	168	110	32
MHPRG 65	73.0	62.6	100	50	285	290	184	125	40

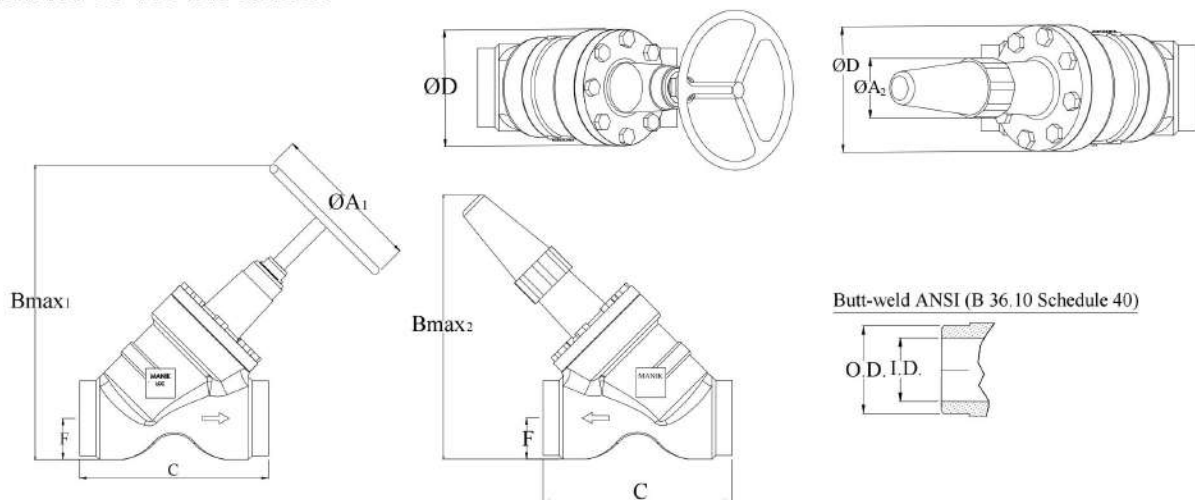
MHPRG 50-65 BW ANG



Butt-weld ANSI (B 36.10 Schedule 40), DN 50 - 65 (2 - 2½ in.)

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. C ₁ (mm)	DIM. D (mm)
MHPR 50	60.3	52.5	100	50	284	315	60.0	72.5	110
MHPRG 65	73.0	62.6	100	50	310	335	70	82.5	125

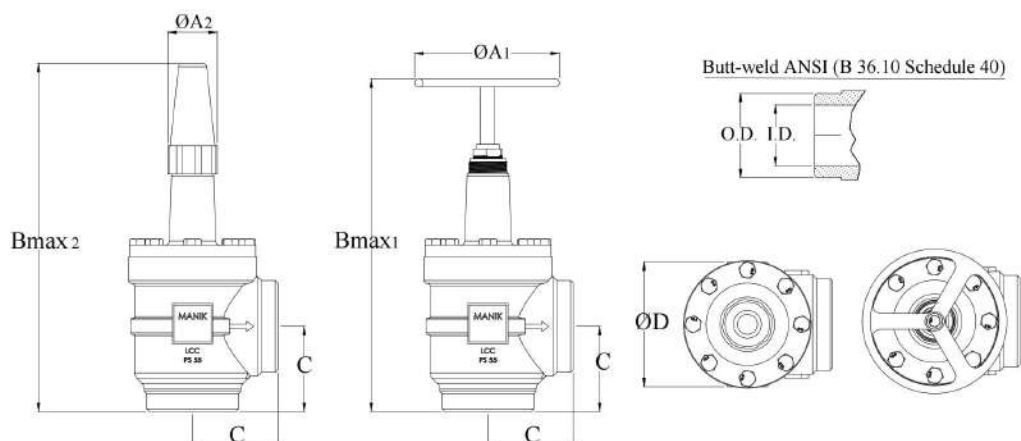
MHPRG 80-100 BW GLOBE



Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 100 (2 - 2½ in.)

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPRG 80	88.9	77.9	200	58	367	322	216	129	48
MHPRG 100	114.3	102.3	250	58	443	375	264	156	60

MHPRG 80-100 BW ANG



Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 100 (3 - 8 in.)ANG

DIMENSION MHPRG	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPRG 80	88.9	77.9	200	58	388	373	90	129
MHPRG 100	114.3	102.3	250	58	437	432	106	156

ORDERING INFO

GLOBE		Size		End Connection	Weight (Kg)
Hand Wheel	Cap	Inch	mm		
MHPRG-10-G-H-S	MHPRG-10-G-C-S	3/8"	10	Socket Weld	1.1
MHPRG-10-G-H-B	MHPRG-10-G-C-B			Butt Weld	1.2
MHPRG-15-G-H-S	MHPRG-15-G-C-S	1/2"	15	Socket Weld	2.6
MHPRG-15-G-H-B	MHPRG-15-G-C-B			Butt Weld	2.4
MHPRG-20-G-H-S	MHPRG-20-G-C-S	3/4"	20	Socket Weld	2.6
MHPRG-20-G-H-B	MHPRG-20-G-C-B			Butt Weld	2.4
MHPRG-25-G-H-S	MHPRG-25-G-C-S	1"	25	Socket Weld	4.6
MHPRG-25-G-H-B	MHPRG-25-G-C-B			Butt Weld	4.2
MHPRG-32-G-H-S	MHPRG-32-G-C-S	1-1/4"	32	Socket Weld	4.6
MHPRG-32-G-H-B	MHPRG-32-G-C-B			Butt Weld	4.2
MHPRG-40-G-H-S	MHPRG-40-G-C-S	1-1/2"	40	Socket Weld	4.6
MHPRG-40-G-H-B	MHPRG-40-G-C-B			Butt Weld	4.4
MHPRG-50-G-H-B	MHPRG-50-G-C-B	2"	50	Butt Weld	7.9
MHPRG-65-G-H-B	MHPRG-65-G-C-B	2-1/2"	65	Butt Weld	8.5
MHPRG-80-G-H-B	MHPRG-80-G-C-B	3"	80	Butt Weld	14.7
MHPRG-100-G-H-B	MHPRG-100-G-C-B	4"	100	Butt Weld	25

ANGLE		Size		End Connection	Weight (Kg.)
Hand Wheel	Cap	Inch	mm		
MHPRG-10-A-H-S	MHPRG-10-A-C-S	3/8"	10	Socket Weld	0.9
MHPRG-10-A-H-B	MHPRG-10-A-C-B			Butt Weld	0.9
MHPRG-15-A-H-S	MHPRG-15-A-C-S	1/2"	15	Socket Weld	2.1
MHPRG-15-A-H-B	MHPRG-15-A-C-B			Butt Weld	1.9
MHPRG-20-A-H-S	MHPRG-20-A-C-S	3/4"	20	Socket Weld	2.1
MHPRG-20-A-H-B	MHPRG-20-A-C-B			Butt Weld	1.9
MHPRG-25-A-H-S	MHPRG-25-A-C-S	1"	25	Socket Weld	3.6
MHPRG-25-A-H-B	MHPRG-25-A-C-B			Butt Weld	3.4
MHPRG-32-A-H-S	MHPRG-32-A-C-S	1-1/4"	32	Socket Weld	3.6
MHPRG-32-A-H-B	MHPRG-32-A-C-B			Butt Weld	3.4
MHPRG-40-A-H-S	MHPRG-40-A-C-S	1-1/2"	40	Socket Weld	3.6
MHPRG-40-A-H-B	MHPRG-40-A-C-B			Butt Weld	3.4
MHPRG-50-A-H-B	MHPRG-50-A-C-B	2"	50	Butt Weld	6.2
MHPRG-65-A-H-B	MHPRG-65-A-C-B	2-1/2"	65	Butt Weld	7.9
MHPRG-80-A-H-B	MHPRG-80-A-C-B	3"	80	Butt Weld	13.3
MHPRG-100-A-H-B	MHPRG-100-A-C-B	4"	100	Butt Weld	21

* Mention the required type of Regulating Valve during ordering. Use "A-Type" for expansion valve and "B-Type" for regulating valve.



HIGH PRESSURE STOP CHECK VALVES AND CHECK VALVES

TYPE : MHPSCV & MHPCV

INTRODUCTION

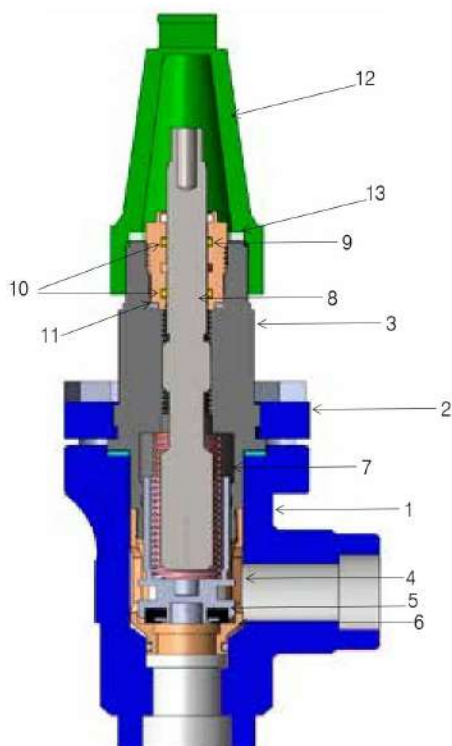
MHPSCV is a combination stop valve and normally-spring-closed check valve. Whereas MHPCV is a simple angle-type check valve. Both of these are available in an angle way only. Valves open wide for full flow in the arrow's direction on the valve body and promptly reseal when reverse flow occurs. Optimum opening characteristics are attained due to Precisely Cut Ports (MHPSCV/MHPCV 50-125). Primary characteristics of these valves include efficient functioning at low differential pressure, easy inspection and maintenance. These valves have stainless steel stems with back seating for seal replacement under working conditions. The internal design minimizes pulsations.

DESIGN FEATURES

- Maximum working pressure: 798 psi g (55 bar g)
- Fluid temperature range: -60°C to + 150°C (-76°F to 302°F)
- Application: Ammonia, Fluorocarbons, Carbon Dioxide
- Material: Body: LCC A352 Cast Steel Body
- Valve Cone: EN1A
- Valve Stem: SS304
- Packing Gland: SS304
- Seat: PTFE
- Connections: DN15-125 – Socket/Butt Weld
- Reliable Back Seating

MATERIAL SPECIFICATION

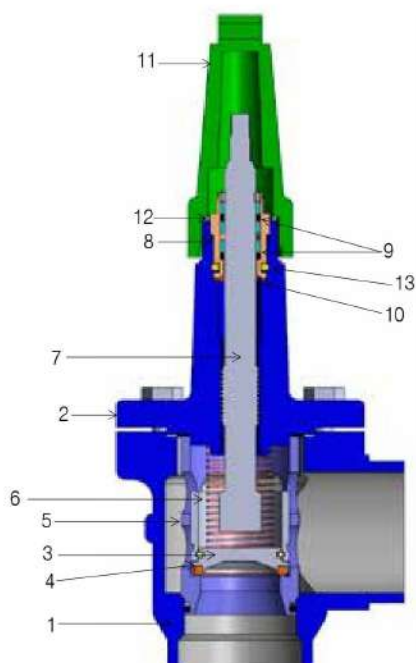
MHPSCV 15-40



MHPSCV 15-40

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	GX5CrNi19-10
2	Bonnet flange	Steel	GX5CrNi19-10
3	Bonnet insert	Steel	X5CrNi18-10
4	External seat	Steel	X12Cr13
5	Piston	Steel	X12Cr13
6	Seal	PTFE	
7	Spring	Spring steel	Spring steel GR.3
8	Spindle	Stainless steel	X5CrNi18-10
9	Packing gland	Stainless steel	X5CrNi18-10
10	O ring	Neoprene	
11	Packing Washer	AL6063	
12	Seal Cap	Aluminum	
13	Seal Cap Gasket	Nylon	
14	Handwheel	Stainless Steel	GX5CrNi19-10

MHPSCV 50-125



MHPSCV 50-125

SR. NO.	PART	MATERIAL	ASTM
1	Housing/valve body	Steel	GX5CrNi19-10
2	bonnet	Steel	GX5CrNi19-10
3	Piston	Steel	X12Cr13
4	Piston Seal	PTFE	
5	External Seat	Steel	X12Cr13
6	Spring	Spring steel	Spring steel SR3
7	Spindle	Steel	X5CrNi18-10
8	Packing gland	Steel	X5CrNi18-10
9	O ring	Neoprene	
10	Packing Washer	Aluminium	AL6063
11	Seal cap	Aluminium	
12	Seal cap Gasket	Nylon	
13	Oring	Neoprene	
14	Handwheel	Stainless Steel	GX5CrNi19-10

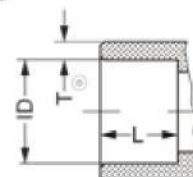
CONNECTIONS

Size		ID	T	ID	T	L	L	K _v -angle	K _v -straight
mm	Inch	mm	mm	Inch	Inch	mm	Inch	m ³ /h	m ³ /h

Socket Welding ANSI (B16.11)

15	½	21.8	6	0.858	0.235	10	0.39	8.5	5.0
20	¾	27.2	4.6	1.071	0.181	13	0.51	10.5	10.5
25	1	33.9	7.2	1.335	0.284	13	0.51	24.5	17.5
32	1¼	42.7	6.1	1.743	0.24	13	0.51	30.5	30.0
40	1½	48.8	6.6	1.921	0.26	13	0.51	30.5	32.0

SOC

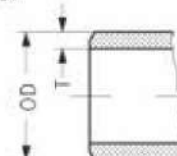


Size		OD	T	OD	T	K _v -angle	K _v -straight
mm	Inch	mm	mm	Inch	Inch	m ³ /h	m ³ /h

Welding ANSI (B 36.10 Schedule 40)

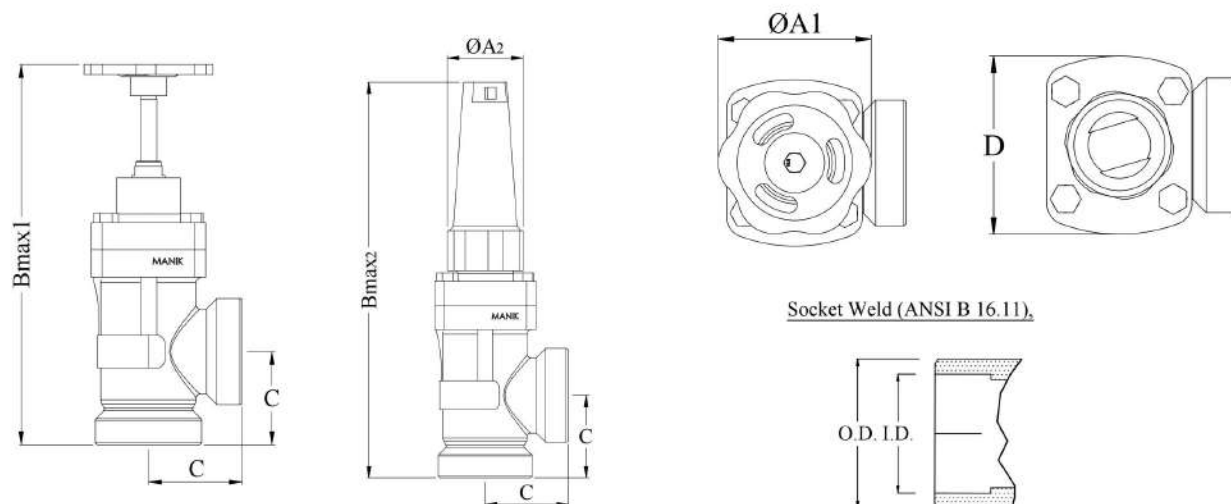
50	2	60.3	3.9	2.37	0.15	45.5	67.5
65	2½	76.1	5.2	2.87	0.20	72.5	97.5
80	3	88.9	5.5	3.50	0.22	103.5	152.5
100	4	114.3	6.0	4.50	0.24	196.5	278.5
125	5	141.3	6.6	5.56	0.26	301.5	470.5

ANSI



DIMENSIONS :

MHPSCV 15-40 SOC ANG

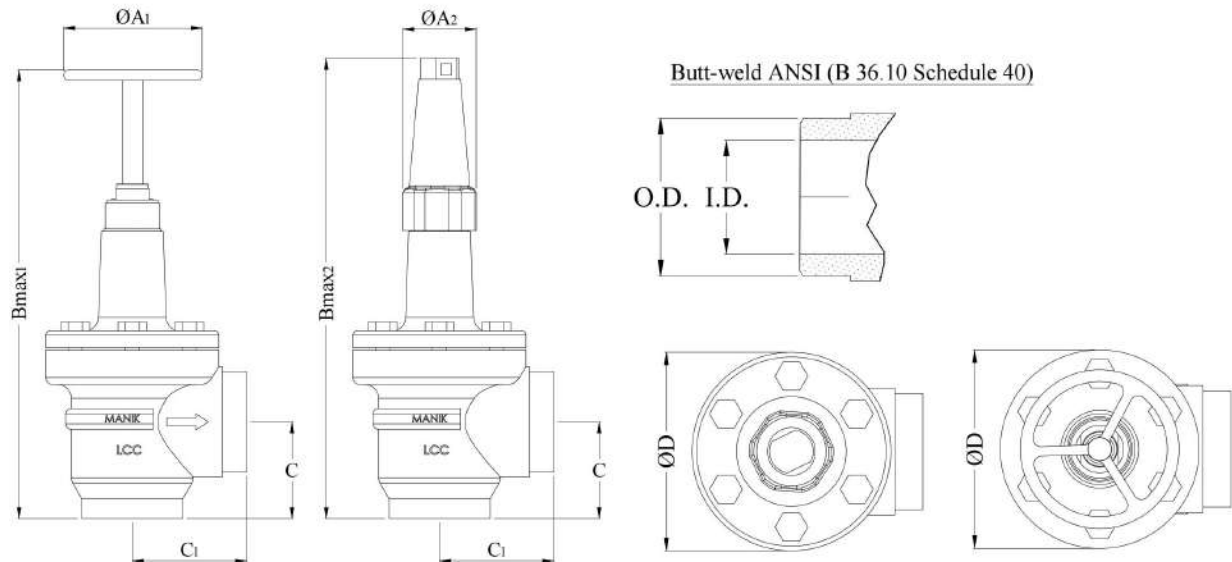


Socket Weld (ANSI B 16.11).

Socket Weld ANSI (B 16.11), DN 15-40 (½ - 1½ in.) ANG

DIMENSION MHPSCV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPSCV 15	33.8	21.8	60	38	205	220	45.0	72
MHPSCV 20	36.4	27.2	60	38	205	220	45.0	72
MHPSCV 25	48.3	33.9	80	50	290	320	55.0	90
MHPSCV 32	54.9	42.7	80	50	290	320	55.0	90
MHPSCV 40	62.0	48.8	80	50	290	320	55.0	90

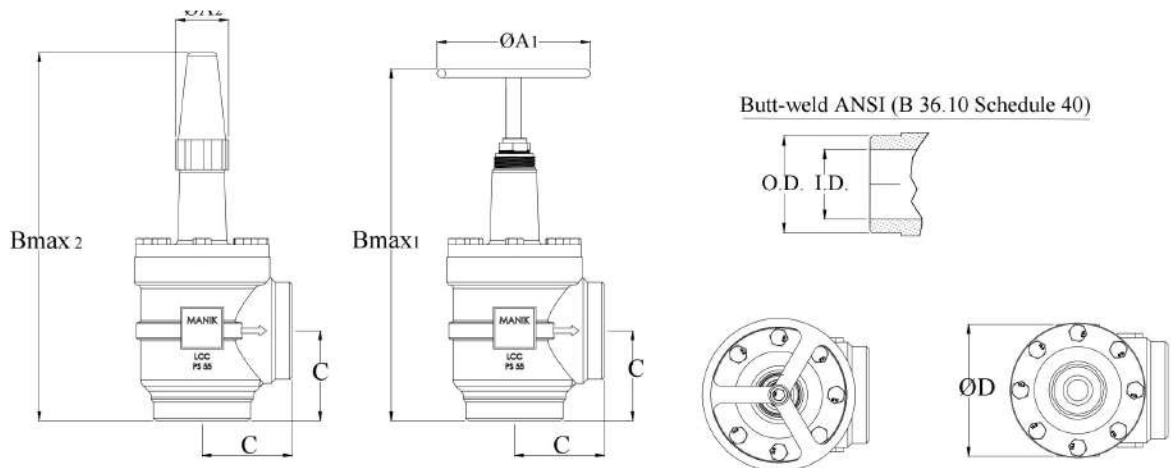
MHPSCV 50-65 BW ANG



Socket Weld ANSI (B 16.11), DN 50-65 (2 - 2½ in.) ANG

DIMENSION MHPSCV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. C ₁ (mm)	DIM. D (mm)
MHPSCV 50	60.3	52.5	100	50	284	315	60.0	72.5	110
MHPSCV 65	73.0	62.6	100	50	310	335	70	82.5	125

MHPSCV 80-125 BW ANG



Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 125 (3 - 5 in.) ANG

DIMENSION MHPSCV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. A ₁ (mm)	DIM. A ₂ (mm)	DIM. Bmax ₁ (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. C ₁ (mm)
MHPSCV 80	88.9	77.9	200	58	388	373	90	129
MHPSCV 100	114.3	102.3	250	58	437	432	106	156
MHPSCV 125	141.3	128.1	315	74	533	517	128	193

ORDERING INFO

MHPSCV

ANGLE		Size		End Connection	Weight (Kg.)
Hand Wheel	Cap	Inch	MM		
MHPSCV-15-A-H-S	MHPSCV-15-A-C-S	1/2"	15	Socket Weld	2.3
MHPSCV-20-A-H-S	MHPSCV-20-A-C-S	3/4"	20	Socket Weld	2.3
MHPSCV-25-A-H-S	MHPSCV-25-A-C-S	1"	25	Socket Weld	4.2
MHPSCV-32-A-H-S	MHPSCV-32-A-C-S	1-1/4"	32	Socket Weld	4.4
MHPSCV-40-A-H-S	MHPSCV-40-A-C-S	1-1/2"	40	Socket Weld	4.4
MHPSCV-50-A-H-B	MHPSCV-50-A-C-B	2"	50	Butt Weld	5.6
MHPSCV-65-A-H-B	MHPSCV-65-A-C-B	2-1/2"	65	Butt Weld	7.6
MHPSCV-80-A-H-B	MHPSCV-80-A-C-B	3"	80	Butt Weld	13.4
MHPSCV-100-A-H-B	MHPSCV-100-A-C-B	4"	100	Butt Weld	22.6
MHPSCV-125-A-H-B	MHPSCV-125-A-C-B	5"	125	Butt Weld	34.7

MHPCV

ANGLE	GLOBE	Size		End Connection	ANGLE	GLOBE
		Inch	MM		Weight (Kg.)	Weight (Kg.)
MHPCV-15-A-S	MHPCV-15-G-S	1/2"	15	Socket Weld	2.0	2.3
MHPCV-20-A-S	MHPCV-20-G-S	3/4"	20	Socket Weld	2.0	2.3
MHPCV-25-A-S	MHPCV-25-G-S	1"	25	Socket Weld	4.0	4.2
MHPCV-32-A-S	MHPCV-32-G-S	1-1/4"	32	Socket Weld	4.0	4.2
MHPCV-40-A-S	MHPCV-40-G-S	1-1/2"	40	Socket Weld	4.0	4.2
MHPCV-50-A-B	MHPCV-50-G-B	2"	50	Butt Weld	5.0	5.8
MHPCV-65-A-B	MHPCV-65-G-B	2-1/2"	65	Butt Weld	6.9	7.6
MHPCV-80-A-B	MHPCV-80-G-B	3"	80	Butt Weld	13.5	15.2
MHPCV-100-A-B	MHPCV-100-G-B	4"	100	Butt Weld	20.4	22.7
MHPCV-125-A-B	MHPCV-125-G-B	5"	125	Butt Weld	31.2	33.5



HIGH PRESSURE FILTER VALVE

TYPE : MHPFV

INTRODUCTION

MHPFV Filters are designed to facilitate the removal of foreign materials from refrigeration systems. They help to maintain and clean dirt and weld slag easily. These valves are available in angle and globe types. These filters are generally used to reduce downtime from the risk of unwanted breakdowns and are used ahead of key equipment such as Ammonia Pumps and Compressors etc. in the refrigeration plants during commissioning and where uninterrupted filtration of the refrigerant is required. Filter Mesh are available across the following mesh sizes 100μ (US150), 150μ (US100), 250μ (US60) and 500μ (US35).

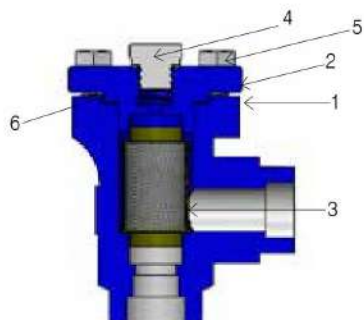
For other sizes, please contact Manik Engineers.

DESIGN FEATURES

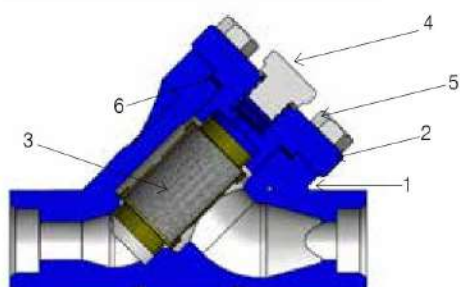
- Maximum working pressure: 798 psi g (55 bar g)
- Fluid temperature range: -60°C to $+150^{\circ}\text{C}$ (-76°F to 302°F)
- Application: Ammonia, Fluorocarbons, Carbon Dioxide
- Material: Body: LCC A352 Cast Steel Body
- Filter Mesh: SS304 Standard/Pleated
- Connections: DN15-40– Socket/Butt Weld
- DN50-200 - Butt Weld

MATERIAL SPECIFICATION

MHPFV 15-40



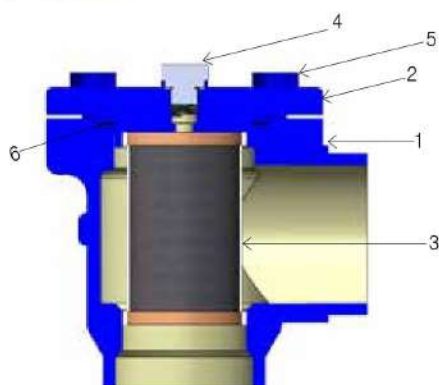
MHPFV 15-40 ANG



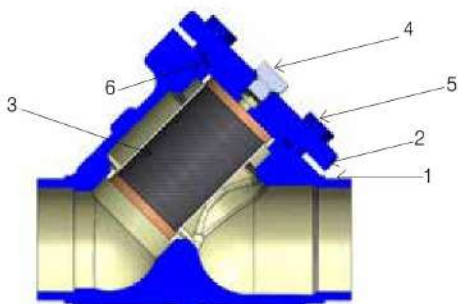
MHPFV 15-40 STR

SR. NO.	PART	MATERIAL	ASTM
1	Valve body	Steel	G20Mn5QT
2	Cover	Steel	X12Cr13
3	Filter Mesh	Steel	
4	Drain nut	Steel	X5CrNi18-10
5	Bolts	Stainless steel	A2-70
6	Gasket	Non asbestos	

MHPFV 50-65 ANG



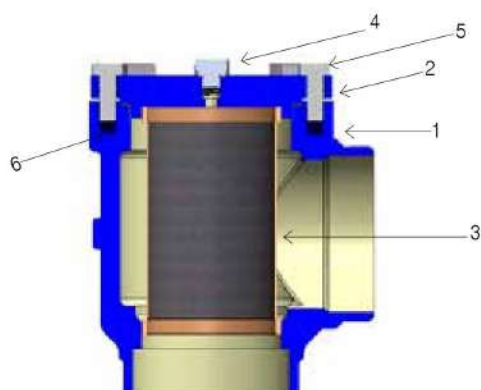
MHPFV 50-65 ANG



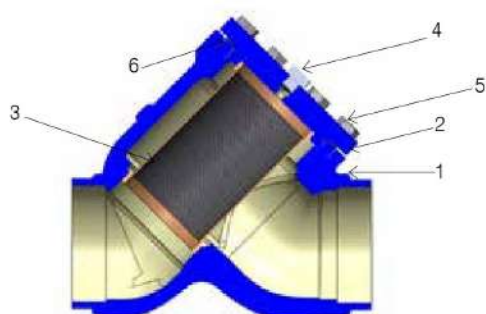
MHPFV 50-65 STR

SR. NO.	PART	MATERIAL	ASTM
1	Valve body	Steel	G20Mn5QT
2	Cover	Steel	X12Cr13
3	Filter Mesh	Steel	
4	Drain nut	Steel	X5CrNi18-10
5	Bolts	Stainless steel	A2-70
6	Gasket	Non asbestos	

MHPFV 80-200



MHPFV 80-200 ANG



MHPFV 80-200 STR

SR. NO.	PART	MATERIAL	ASTM
1	Valve body	Steel	G20Mn5QT
2	Cover	Steel	X12Cr13
3	Filter Mesh	Steel	
4	Drain nut	Steel	X5CrNi18-10
5	Bolts	Stainless steel	A2-70
6	Gasket	Non asbestos	

CONNECTIONS

Size		OD mm	T mm	OD Inch	T Inch	K _v -angle m ³ /h	K _v -straight m ³ /h
mm	Inch						

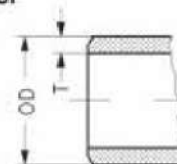
Socket welding ANSI (B 16.11)

15	½	21.8	6.0	0.858	0.235	7.0	5.0
20	¾	27.2	4.6	1.071	0.181	14.6	10.5
25	1	33.9	7.2	1.335	0.284	24.8	17.5
32	1¼	42.7	6.1	1.743	0.240	42.6	30.0
40	1½	48.8	6.6	1.921	0.260	45.2	32.0
50	2	61.2	6.2	2.41	0.24	80	67.5

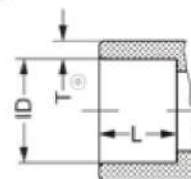
Butt-weld ANSI (B 36.10 Schedule 40)

50	2	60.3	3.9	2.37	0.15	80	67.5
65	2½	73.0	5.2	2.87	0.20	120	97.5
80	3	88.9	5.5	3.50	0.22	182	152.5
100	4	114.3	6.0	4.50	0.24	313	278.5
125	5	141.3	6.6	5.56	0.26	514	470.5
150	6	168.3	7.1	6.63	0.28	785	597.5
200	8	219.1	8.2	8.63	0.32	1168	1024.5

ANSI

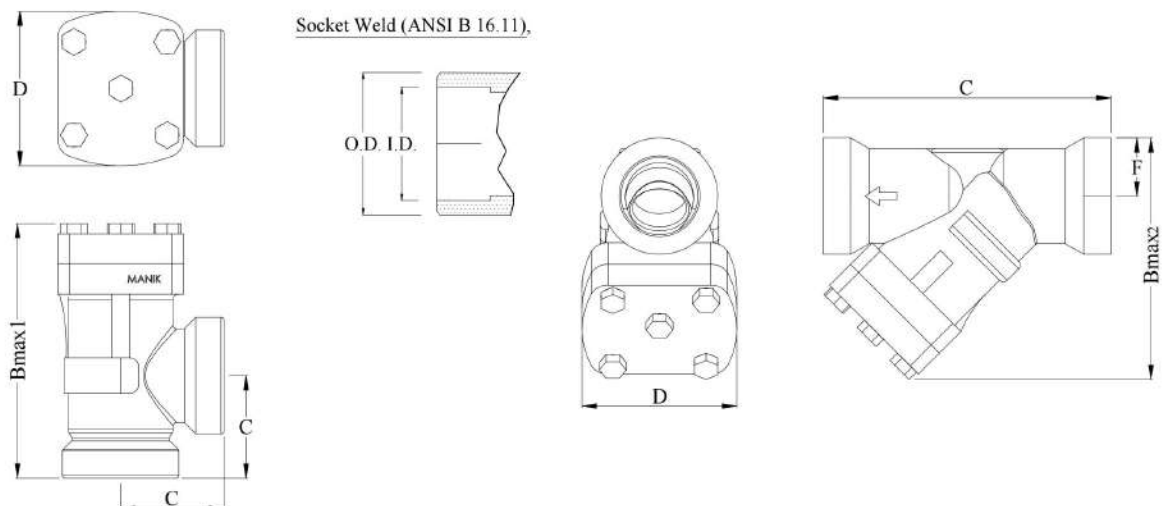


SOC



DIMENSION

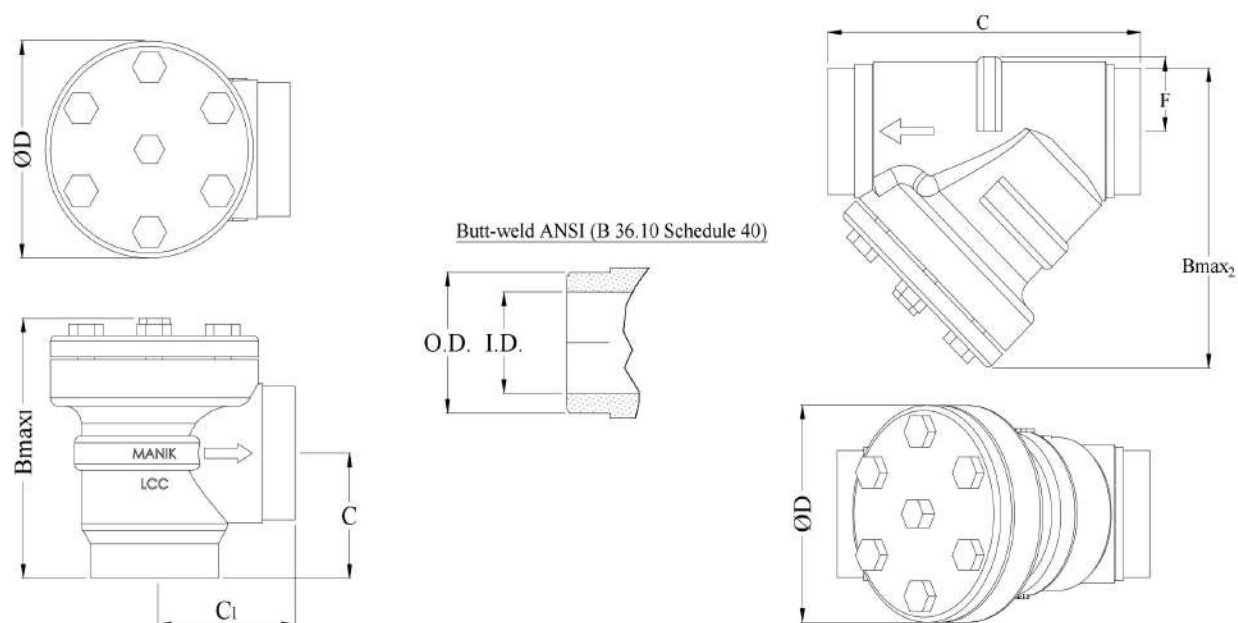
MHPFV 15-40 SOC ANG and STR



Socket Weld ANSI (B 16.11), DN 15-40 ($\frac{1}{2}$ - $1\frac{1}{2}$ in.) ANG					
DIMENSION MHPFV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. Bmax ₁ (mm)	DIM. C (mm)	DIM. D (mm)
MHPFV 15	33.8	21.8	235	45.0	72
MHPFV 20	36.4	27.2	235	45.0	72
MHPFV 25	48.3	33.9	235	55.0	90
MHPFV 32	54.9	42.7	235	55.0	90
MHPFV 40	62.0	48.8	235	55.0	90

Socket Weld ANSI (B 16.11), DN 15-40 ($\frac{1}{2}$ - $1\frac{1}{2}$ in.) Straight					
DIMENSION MHPFV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)
MHPFV 15	33.8	21.8	105	121	72
MHPFV 20	36.4	27.2	105	121	72
MHPFV 25	48.3	33.9	135	160	90
MHPFV 32	54.9	42.7	135	160	90
MHPFV 40	62.0	48.8	135	160	90

MHPFV 50-65 BW ANG and STR



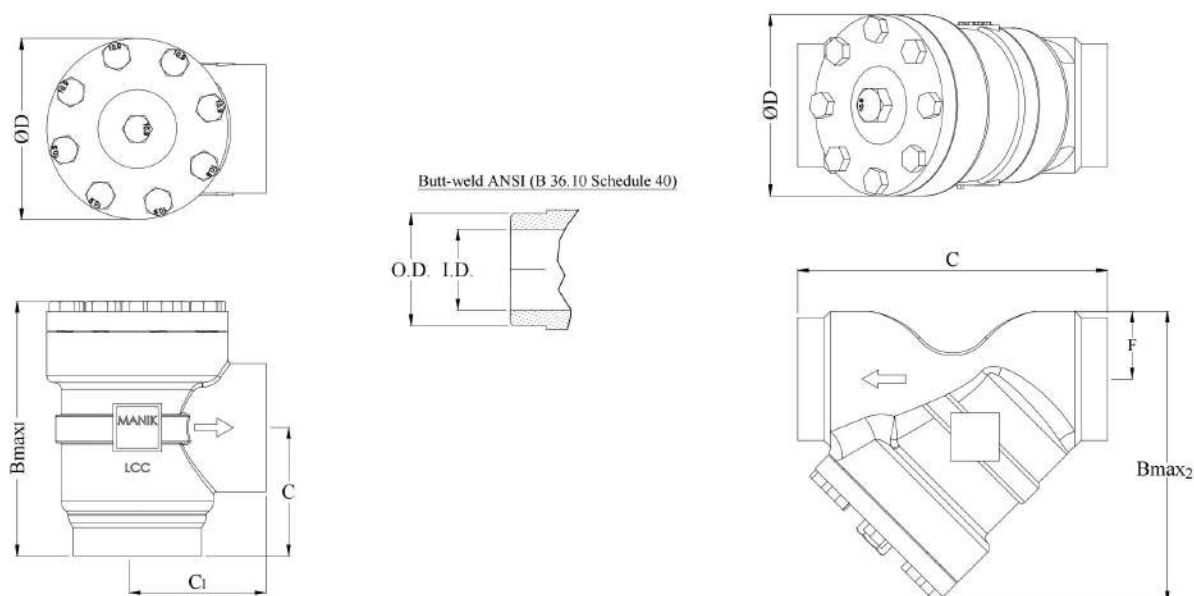
Butt-weld ANSI (B 36.10 Schedule 40), DN 50 - 65 (2 - 2½ in.)ANG

DIMENSION MHPFV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. Bmax (mm) ¹	DIM. C (mm)	DIM. C ₁ (mm)	DIM. D (mm)
MHPFV 50	60.3	52.5	132	60.0	72.5	110
MHPFV 65	73.0	62.6	152	70	82.5	125

Butt-weld ANSI (B 36.10 Schedule 40), DN 50 - 65 (2 - 2½ in.)STR

DIMENSION MHPFV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. Bmax (mm) ²	DIM. C (mm)	DIM. C ₁ (mm)	DIM. D (mm)
MHPFV 50	60.3	52.5	160	168	110	32
MHPFV 65	73.0	62.6	183	184	125	40

MHPFV 80-200 BW ANG and STR



Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 200
(3 - 8 in.)ANG

DIMENSION MHPFV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. Bmax ₁ (mm)	DIM. C (mm)	DIM.D (mm)
MHPFV 80	88.9	77.9	189	90	129
MHPFV 100	114.3	102.3	223	106	156
MHPFV 125	141.3	128.1	268	128	193
MHPFV 150	168.3	154.1	303	370	219
MHPFV 200	219.1	202.7	372	464	276

Butt-weld ANSI (B 36.10 Schedule 40), DN 80 - 200
(3 - 8 in.)STR

DIMENSION MHPFV	DIM. O.D. (mm)	DIM. I.D. (mm)	DIM. Bmax ₂ (mm)	DIM. C (mm)	DIM. D (mm)	DIM. F (mm)
MHPFV 80	88.9	77.9	204	216	129	48
MHPFV 100	114.3	102.3	256	264	156	60
MHPFV 125	141.3	128.1	313	322	193	74
MHPFV 150	168.3	154.1	370	370	219	91
MHPFV 200	219.1	202.7	465	464	276	117

ORDERING INFO

STRAIGHT		Size		End Connection	Weight (Kg.)
With 100 mesh	Pleated	Inch	MM		
MHPFV-15-S-S-M	MHPFV-15-S-S-P	1/2"	15	Socket Weld	2.2
MHPFV-20-S-S-M	MHPFV-20-S-S-P	3/4"	20	Socket Weld	2.2
MHPFV-25-S-S-M	MHPFV-25-S-S-P	1"	25	Socket Weld	3.7
MHPFV-32-S-S-M	MHPFV-32-S-S-P	1-1/4"	32	Socket Weld	3.7
MHPFV-40-S-S-M	MHPFV-40-S-S-P	1-1/2"	40	Socket Weld	3.8
MHPFV-50-S-B-M	MHPFV-50-S-B-P	2"	50	Butt Weld	5.7
MHPFV-65-S-B-M	MHPFV-65-S-B-P	2-1/2"	65	Butt Weld	7.9
MHPFV-80-S-B-M	MHPFV-80-S-B-P	3"	80	Butt Weld	10.7
MHPFV-100-S-B-M	MHPFV-100-S-B-P	4"	100	Butt Weld	17.9
MHPFV-125-S-B-M	MHPFV-125-S-B-P	5"	125	Butt Weld	30.3
MHPFV-150-S-B-M	MHPFV-150-S-B-P	6"	150	Butt Weld	53.6
MHPFV-200-S-B-M	MHPFV-200-S-B-P	8"	200	Butt Weld	97

ANGLE		Size		End Connection	Weight (Kg.)
With 100 mesh	Pleated	Inch	MM		
MHPFV-15-A-S-M	MHPFV-15-A-S-P	1/2"	15	Socket Weld	1.9
MHPFV-20-A-S-M	MHPFV-20-A-S-P	3/4"	20	Socket Weld	1.9
MHPFV-25-A-S-M	MHPFV-25-A-S-P	1"	25	Socket Weld	3
MHPFV-32-A-S-M	MHPFV-32-A-S-P	1-1/4"	32	Socket Weld	3
MHPFV-40-A-S-M	MHPFV-40-A-S-P	1-1/2"	40	Socket Weld	3.1
MHPFV-50-A-B-M	MHPFV-50-A-B-P	2"	50	Butt Weld	3.9
MHPFV-65-A-B-M	MHPFV-65-A-B-P	2-1/2"	65	Butt Weld	5.9
MHPFV-80-A-B-M	MHPFV-80-A-B-P	3"	80	Butt Weld	8.5
MHPFV-100-A-B-M	MHPFV-100-A-B-P	4"	100	Butt Weld	14.3
MHPFV-125-A-B-M	MHPFV-125-A-B-P	5"	125	Butt Weld	22.4
MHPFV-150-A-B-M	MHPFV-150-A-B-P	6"	150	Butt Weld	29.6
MHPFV-200-A-B-M	MHPFV-200-A-B-P	8"	200	Butt Weld	68

Note :

Filter Mesh are available across the following mesh sizes 100 μ (US150), 150 μ (US100), 250 μ (US60) and 500 μ (US35).

Ammonia Pressure / Temperature Chart

°F	°C	INCHES OF Hg	
		PSIG"	barg
-60	-51.1	18.6	-0.61
-55	-48.3	16.7	-0.54
-50	-45.6	14.4	-0.47
-45	-42.8	11.8	-0.39
-40	-40	8.8	-0.283
-35	-37.2	5.5	-0.16
-30	-34.4	1.7	-0.05
-25	-31.7	1.2	0.082
-20	-28.9	3.5	0.241
-18	-27.8	4.5	0.310
-16	-26.7	5.6	0.386
-14	-25.6	6.7	0.461
-12	-24.4	7.8	0.537
-10	-23.3	9	0.620
-8	-22.2	10.2	0.703
-6	-21.1	11.5	0.792
-4	-20	12.8	0.882
-2	-18.9	14.2	0.979
0	-17.8	15.6	1.075
1	-17.2	16.4	1.130
2	-16.7	17.1	1.179
3	-16.1	17.9	1.234
4	-15.6	18.7	1.289
5	-15	19.5	1.344
6	-14.4	20.3	1.399
7	-13.9	21.1	1.454
8	-13.3	22	1.516
9	-12.8	22.8	1.572
10	-12.2	23.7	1.634
11	-11.7	24.6	1.696
12	-11.1	25.5	1.758
13	-10.6	26.4	1.820
14	-10	27.4	1.889
15	-9.4	28.3	1.951
16	-8.9	29.3	2.020
17	-8.3	30.3	2.089
18	-7.8	31.3	2.158
19	-7.2	32.4	2.233
20	-6.7	33.4	2.302
21	-6.1	34.5	2.378
22	-5.6	35.5	2.447
23	-5	36.6	2.523
24	-4.4	37.7	2.599
25	-3.9	38.8	2.675

°F	°C	INCHES OF Hg	
		PSIG"	barg
26	-3.3	40	2.757
27	-2.8	41.2	2.840
28	-2.2	42.4	2.923
29	-1.7	43.7	3.013
30	-1.1	44.9	3.095
31	-0.6	46.1	3.178
32	0	47.4	3.268
33	0.6	48.7	3.357
34	1.1	50	3.447
35	1.7	51.4	3.543
36	2.2	52.7	3.633
37	2.8	54.1	3.730
38	3.3	55.5	3.826
39	3.9	57	3.930
40	4.4	58.4	4.0265
41	5	59.2	4.081
42	5.6	61.4	4.233
43	6.1	62.9	4.336
44	6.7	64.5	4.447
45	7.2	66.1	4.557
46	7.8	67.6	4.660
47	8.3	69.3	4.778
48	8.9	70.9	4.888
49	9.4	72.6	5.005
50	10	74.3	5.122
55	12.8	83.2	5.736
60	15.6	92.6	6.384
65	18.3	102.8	7.087
70	21.1	113.8	7.846
75	23.9	125.5	8.652
80	26.7	138	9.514
85	29.4	151.4	10.438
90	32.2	165.5	11.410
95	35	180.6	12.451
100	37.8	196.7	13.561
105	40.6	213.9	14.747
110	43.3	231.8	15.982
115	46.1	251	17.305
120	48.9	271.1	18.691
125	51.7	292.5	20.167
130	54.4	314.9	21.7115
135	57.2	338.8	23.359
140	60	363.5	25.062
145	62.8	390.2	26.903
150	65.6	417.4	28.778