

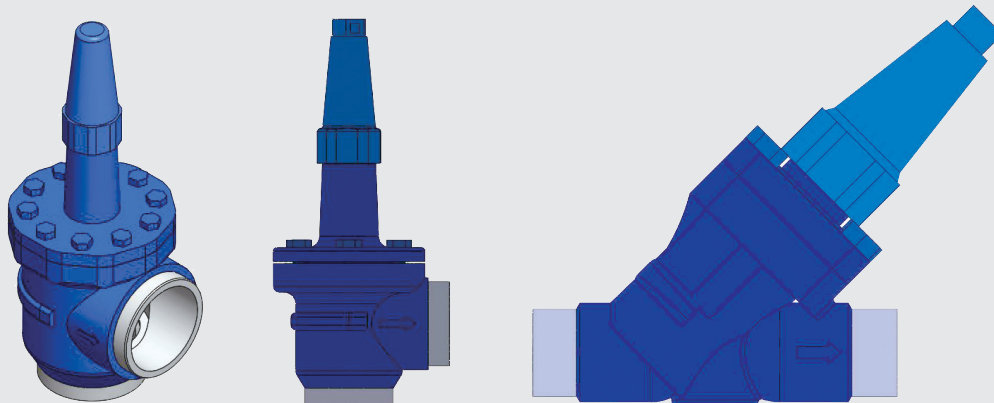
## NEW RANGE

# MANIK HIGH PRESSURE VALVES

(Maximum Working Pressure 55 bar)

## HIGH PRESSURE STOP VALVES

Type : MHPSV



### INTRODUCTION

MHPSV Stop Valves have a novel design. These valves fit all requirements of the latest refrigeration technology and have desired flow characteristics. They are the right choice when it comes to assembling, dismantling, and repairing.

These valves are available in two efficient types: 1) the angle way valve; and 2) the straightway valve. The valve's cone helps right sealing and also endures high pulsation and vibration for an accurately functioning discharge line. 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.

### HIGHLIGHTS

- Maximum working pressure: 798 psi g (55 bar g).
- Operating temperature range: -60°C to + 150°C (-76°F to 302°F).

### CONNECTIONS

Size mm	Size in.	OD mm	T mm	OD in.	T in.	K <sub>v</sub> -angle m <sup>3</sup> /h	K <sub>v</sub> -straight m <sup>3</sup> /h
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#### Butt-weld ANSI (B 36.10 Schedule 80)

15	1/2	21.3	3.7	0.839	0.146	7.0	5.0
20	3/4	26.9	4	1.059	0.158	14.6	10.5
25	1	33.7	4.6	1.327	0.181	24.8	17.5
32	1 1/4	42.4	4.9	1.669	0.193	42.6	30.0
40	1 1/2	48.3	5.1	1.902	0.201	45.2	32.0

#### Butt-weld ANSI (B 36.10 Schedule 40)

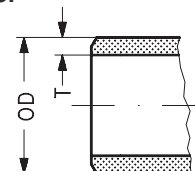
50	2	60.3	3.9	2.37	0.15	80	67.5
65	2 1/2	73.0	5.2	2.87	0.20	120	97.5
80	3	88.9	5.5	3.50	0.22	182	152.5
100	4	114.3	6.0	4.50	0.24	313	278.5
125	5	141.3	6.6	5.56	0.26	514	470.5
150	6	168.3	7.1	6.63	0.28	785	597.5
200	8	219.1	8.2	8.63	0.32	1168	1024.5

Size mm	Size in.	ID mm	T mm	ID in.	T in.	L mm	L in.	K <sub>v</sub> -angle m <sup>3</sup> /h	K <sub>v</sub> -straight m <sup>3</sup> /h
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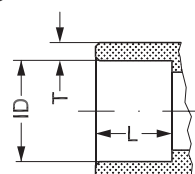
#### Socket welding ANSI (B16.11)

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
50	2	61.2	6.2	2.41	0.24	16	0.63	80	65.5

ANSI

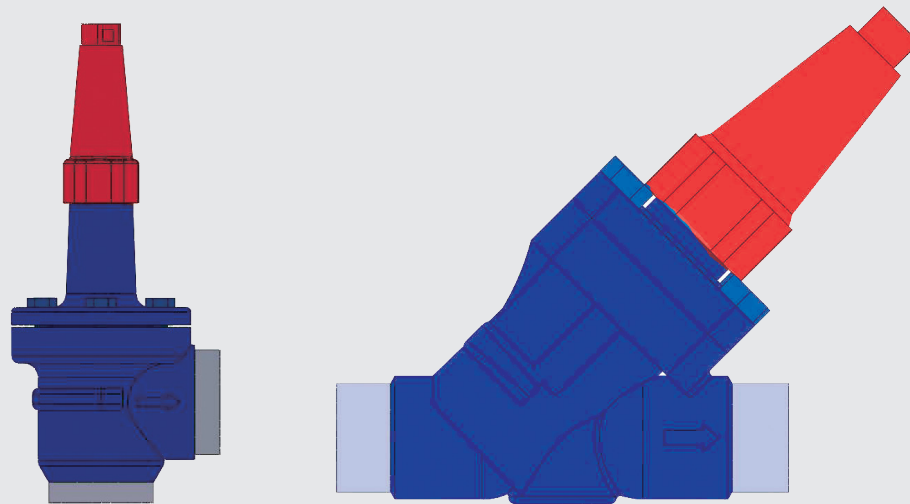


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# HIGH PRESSURE REGULATING VALVES

Type : MHPRG-A and MHPRG-B



## INTRODUCTION

There are two types of MHPRG hand regulating valve MHPRG-A and MHPRG-B. These are available in both angleway and straightway versions. The valves act as stop valve in closed condition.

The MHPRG is furnished with a cap with a vent hole and internal backseating which enables the shaft seal (gland) to be replaced while the valve is still under working condition.

MHPRG valve available in two variants- MHPRG -A for expansion line 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.

## HIGHLIGHTS

- Maximum working pressure: 798 psi g (55 bar g).
- Operating temperature range: -60°C to + 150°C (-76°F to 302°F).

## CONNECTIONS

	Size	Size	OD T	T mm	OD in	T in	Cone
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Welding ANSI (B 36.10 Schedule 80)

MHPRG-A / B	15	½	21.3	3.7	0.839	0.146	A and B
	2	¾	26.9	4	1.059	0.158	
MHPRG-A / B	25	1	33.7	4.6	1.327	0.181	A and B
	32	1¼	42.4	4.9	1.669	0.193	
	40	1½	48.3	5.1	1.902	0.201	

Welding ANSI (B 36.10 Schedule 40)

MHPRG-B	50	2	60.3	3.9	2.37	0.15	B
	65	2½	73.0	5.2	2.87	0.20	

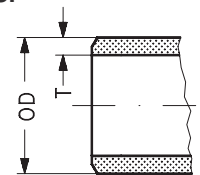
Socket Welding ANSI (B16.1 1)

	Size mm	Size in	OD mm	T mm	OD in	T in	L mm	L in	Cone
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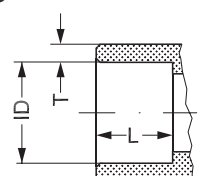
Socket Welding ANSI (B16.11)

MHPRG-A / B	15	½	21.8	6	0.858	0.235	10	0.39	A and B
	20	¾	27.2	7.6	1.071	0.299	13	0.51	
	25	1	33.9	7.2	1.335	0.284	13	0.51	A and B
	32	1¼	42.7	6.1	1.743	0.24	13	0.51	
	40	1½	48.8	6.6	1.921	0.26	13	0.51	
	50	2	61.2	6.2	2.41	0.24	16	0.63	B

ANSI

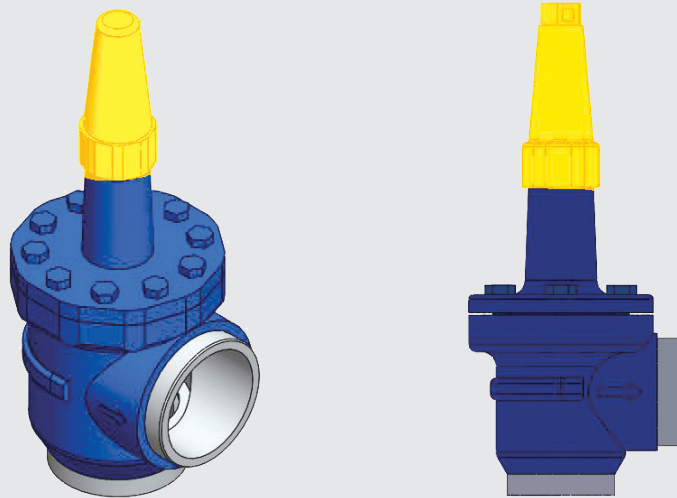


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# HIGH PRESSURE STOP CHECK VALVES AND CHECK VALVES

Type : MHPSCV & MHPCV



## INTRODUCTION

MHPSCV and MHPCV differ with respect to check valves with or without an integral stop valve function; where MHPSCV is with an integral stop valve function and MHPCV is without the integral stop valve function.

Both of these are available in an angle way only. Prime characteristics of these valves include efficient functioning at low differential pressure, ease of maintenance. Optimum opening characteristics are attained due to accurate v-posts achieved by laser-cutting (MHPSCV/MHPCV 50-125) A core feature of the valve cone includes flexibility that promises tight and perfect closing with the valve seat.

A speciality of MHPSCV is its seal cap with a vent hole and internal back-seating which allows the shaft seal (gland) to be replaced while the valve is still under working condition. The piston and cylinder are aligned in a way that balances the damping effect and protects the valve in case of low loads and pulsation.

## HIGHLIGHTS

- Maximum working pressure: 798 psi g (55 bar g).
- Operating temperature range: -60°C to +150°C (-76° to 302°F).

## CONNECTIONS

Size mm	Size in	OD mm	T mm	OD in	T in	K <sub>v</sub> -angle m³/h
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Welding ANSI (B 36.10 Schedule 80)

15	1/2	21.3	3.7	0.839	0.146	8.5
20	3/4	26.9	4.0	1.059	0.158	10.5
25	1	33.7	4.6	1.327	0.181	24.5
32	1 1/4	42.4	4.9	1.669	0.193	30.5
40	1 1/2	48.3	5.1	1.902	0.201	30.5

Welding ANSI (B 36.10 Schedule 40)

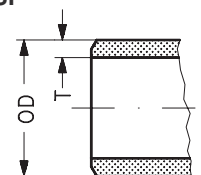
50	2	60.3	3.9	2.37	0.15	45.5
65	2 1/2	76.1	5.2	2.87	0.20	72.5
80	3	88.9	5.5	3.50	0.22	103.5
100	4	114.3	6.0	4.50	0.24	196.5
125	5	141.3	6.6	5.56	0.26	301.5

Size mm	Size in	ID mm	T mm	ID in	T in	L mm	L in	K <sub>v</sub> -angle m³/h
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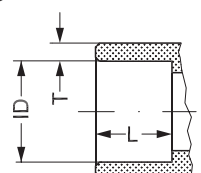
Socket Welding ANSI (B16.11)

15	1/2	21.8	6	0.858	0.235	10	0.39	8.5
20	3/4	27.2	4.6	1.071	0.181	13	0.51	10.5
25	1	33.9	7.2	1.335	0.284	13	0.51	24.5
32	1 1/4	42.7	6.1	1.743	0.24	13	0.51	30.5
40	1/2	48.8	6.6	1.921	0.26	13	0.51	30.5
50	2	61.2	6.2	2.41	0.24	16	0.63	45.5

ANSI

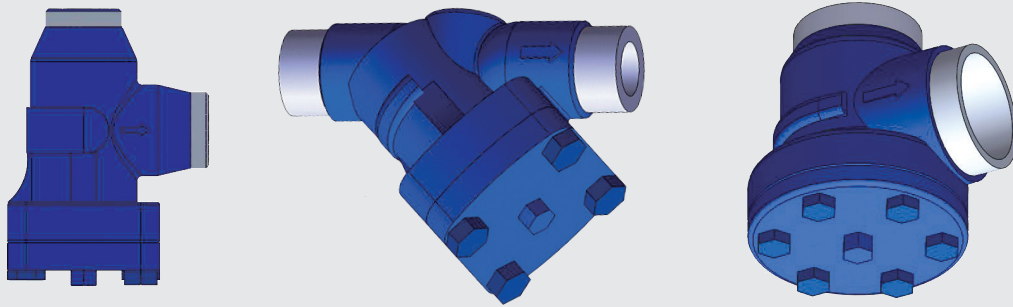


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# HIGH PRESSURE FILTER VALVE

Type : MHPFV



## INTRODUCTION

MHPFV filters are designed in such a way that it is easy to install, check, clean, and repair along with providing just the right flow conditions. They are available in angleway and straightway varieties.

These filters are generally used to nullify the risk of unwanted breakdowns and are used ahead of compressors, automatic controls, pumps etc. for start-up and where uninterrupted filtration of the refrigerant is required. It also reduces depletion of plant components due to foreign material.

Available in 100 $\mu$ (microns\*), 150 $\mu$ , 250 $\mu$  and 500 $\mu$ , (US 150, 100, 72, 38 mesh\*), MHPFV filters are carefully designed with a screen mesh of stainless steel.

## HIGHLIGHTS

- Maximum working pressure: 798 psi g (55 bar g).
- Operating temperature range: -60°C to +150°C (-76°F to 302°F).

## CONNECTIONS

Size mm	Size in	OD mm	T mm	OD in	T in
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### Butt-weld ANSI (B 36.10 Schedule 80)

15	1/2	21.3	3.7	0.839	0.146
20	3/4	26.9	4.0	1.059	0.158
25	1	33.7	4.6	1.327	0.181
32	1 1/4	42.4	4.9	1.669	0.193
40	1 1/2	48.3	5.1	1.902	0.201

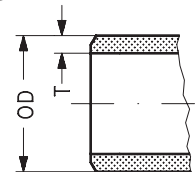
### Butt-weld ANSI (B 36.10 Schedule 40)

50	2	60.3	3.9	2.37	0.15
65	2 1/2	73.0	5.2	2.87	0.20
80	3	88.9	5.5	3.50	0.22
100	4	114.3	6.0	4.50	0.24
125	5	141.3	6.6	5.56	0.26
150	6	168.3	7.1	6.63	0.28
200		219.1	8.2	8.63	0.32

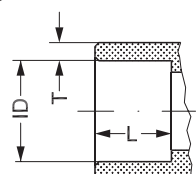
### Socket welding ANSI (B 16.11)

15	1/2	21.8	6.0	0.858	0.235
20	3/4	27.2	4.6	1.071	0.181
25	1	33.9	7.2	1.335	0.284
32	1 1/4	42.7	6.1	1.743	0.240
40	1 1/2	48.8	6.6	1.921	0.260
50	2	61.2	6.2	2.41	0.24

ANSI



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