Industrial: Valves

Ball Valves

Brass, Carbon Steel & Stainless Steel
Padlocking & Vented Options
Handle Options
Inch & Metric
UL Listed
90˚ Valves
Actuators

Needle Valves

Fine Threaded for control and positive seal
All Brass construction
Metal to Metal Seats

Ground Plug Shutoff / Drain Cocks

External & Internal Seat
Metal to Metal Seats
Economical

Female Ports

XV500P Female-Female

p. K6

XV502P Panel Mount

p. K11

XV520P Economy Series

p. K17

XV533P 3 Way Diversion

p. K19

XV540P 4 Way

p. K19

XV600P 6 Port Diversion

p. K24

XV633P 6 Port Diversion

p. K24

XV500CS Carbon Steel

p. K26

XV502CS Panel Mount Carbon Steel

p. K26

XV502SS Panel Mount Stainless

p. K34

MV709 Micro Valve

p. K47

MV200 Mini Valve

p. K52

MV609 Mini Valve

p. K52

PV609 Plug Valve

p. K54

Male-Female Ports

XV501P Male-Female

p. K9

XV590P 90° Valve

p. K21

XV590P-X-04 90° Valve

p. K21

XV501SS Stainless Steel

p. K32

MV708 Micro Valve

p. K47

MV608 Mini Valve

p. K52

PV608 Plug Valve

p. K54

Solder Ports

XV509P Solder - Solder

p. K14

Male-Male Ports

XV591P 90° Valve

p. K21

XV591P-X-04 90° Valve

p. K21

PV607 Plug Valve

p. K54

Straight Thread Ports

XV506P Female - Female

p. K13

XV510P Male - Female

p. K16

XV506CS Carbon Steel

p. K28

Straight Thread Ports-High Pressure

XV506HP Straight Thread

p. K31

Female Ports-High Pressure

XV500HP Female Ports

p. K30

Female Ports-Padlocking-High Pressure

XVP500HP Female Ports-Padlocking

p. K30

Barb to Female Port

XV500HB Barb to Female Port

p. K22

Padlocking

XVP500P Female Ports

p. K6

XVP501P Male - Female

p. K9

XVP502P Panel Mount

p. K11

XVP510P Straight Thread

p. K16

XVP500CS Carbon Steel

p. K26

XVP502CS Panel Mount

p. K26

XVP502SS Stainless Steel

p. K34

Straight Thread Ports-Padlocking-High Pressure

XVP506HP Straight Thread

p. K31

Vented

XVV500P Female Ports

p. K6

XVV501P Male-Female

p. K9

XVV502P Panel Mount

p. K11

K

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Vented-Padlocking

XVVP500P
Female Ports

p. K6

XVVP501P
Male-Female

p. K9

XVVP502P
Panel Mount

p. K11

Tee Handle

XV500P-X-04
Female Ports

p. K7

XV501P-X-04
Male - Female

p. K9

XV502P-X-04
Panel Mount

p. K11

XV510P-X-04
Straight Thread

p. K16

XV500CS-X-04
Carbon Steel

p. K26

Oval Handle

XV500P-X-21
Female Ports

p. K7

XV501P-X-21
Male - Female

p. K9

XV502P-X-21
Panel Mount

p. K11

XV510P-X-21
Straight Thread

p. K16

XV500CS-X-21
Carbon Steel

p. K27

XV502CS-X-21
Panel Mount - Carbon Steel

p. K27

XV502SS-X-21
Oval Handle

p. K34

Short Handle

XV502SS-X-20
Panel Mount

p. K34

Metric Female Ports

BVGC
Female Ports

p. K39

BVGTC
Female Ports

p. K39

BVGL
Female Ports Long

p. K41

BVGTL
Female Ports Long

p. K41

MBVG
Compact

p. K45

Metric Padlocking

BVG4PLOCK
Female Ports

p. K43

Needle Valves

NV101F
Female - Male

p. K56

NV102F
Flare

p. K56

NV103F
Flare - Male Pipe

p. K56

NV104C-NV104CA
Compression - Pipe

p. K56

NV105C-NV105CA
Compression

p. K56

NV106C-NV106CA
Compression - Pipe

p. K57

NV107P
Pipe

p. K57

NV108P
Female - Male

p. K57

NV109P
Female

p. K57

NV311P
Poly-Tite

p. K57

NV312P
Poly-Tite

p. K57

Shutoff Valves

V203F
Flare

p. K59

V204F
Flare - Pipe

p. K59

V303C-V303CA
Compression

p. K59

V304C-V304CA
Compression - Pipe

p. K59

V401P
Pipe

p. K59

V402P
Female - Pipe

p. K59

V403P
Female

p. K59

V406P
3 Way

p. K59

V407P
4 Way

p. K59

DC601
Pipe

p. K59

Drain Cocks

DCR601
Internal Seal

p. K60

DC602
Internal Seal

p. K60

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Otsego, Michigan

DC603
Internal Seal

p. K60

DC604
External Seal

p. K60

DC606
External Seal

p. K60

DC607
Bib Drain

p. K60

Auxiliary

XV502P-X-ACT
Actuator

p. K36

XV502SS-X-ACT
Actuator

p. K36

XV502P-X-SUB
Sub-Assembly

p. K37

XV502SS-X-SUB
Sub-Assembly

p. K37

ACT-P-X-KIT
Brass Actuator kit

p. K37

ACT-SS-X-KIT
Stainless Actuator Kit

p. K37

STX-P
Stem Extension

p. K50

PVMB-001
Mounting Bracket

p. K54

HV104C-KIT
Humidifier Valve Kit

p. K56

SPV104C-KIT
Self Piercing Kit

p. K56

HV104C
Humidifier Valve

p. K56

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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Brass Ball Valves Series 500

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	500	P	-4	-00
STYLE	• V-VALVE* • VP-VALVE, PADLOCKING HANDLE* • VV-VALVE, VENTED • VVP-VALVE, VENTED, PADLOCKING HANDLE			
TYPE	500-FEMALE/FEMALE PTF PORTS 500-FEMALE/FEMALE NPT PORTS*			
MATERIAL	P- BRASS* PN-NICKEL PLATED			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"			
OPTIONS	• 01-STAINLESS STEEL BALL & STEM • 02-STAINLESS STEEL HANDLE & NUT* • 03-STAINLESS STEEL BALL, STEM, HANDLE & NUT • 04-TEE HANDLE* • 08-UNMARKED YELLOW VINYL HANDLE COVER* • 21-OVAL HANDLE			

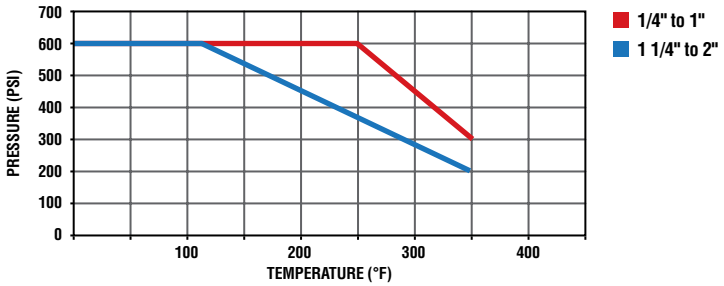
SPECIFICATIONS	
OPERATING INSTRUCTIONS:	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
PRESSURE RANGE:	• 600 WOG, COLD NON-SHOCK • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG. • VENTED UP TO 250 PSI
TEMPERATURE RANGES:	0° TO +350°F
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

FLOW DATA	
VALVE SIZE	CV
1/4	4.0
3/8	5.8
1/2	12.0
3/4	25.0
1	35.0
1-1/4*	57.0
1-1/2*	92.0
2*	224.0

*For these part numbers only the * options are available.

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.



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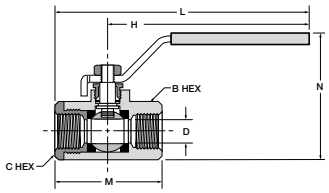
Fluid System Connectors
Otsego, Michigan

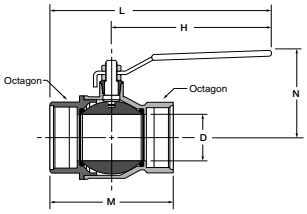
Female-Female Pipe Ends XV500P

PART NO.	PIPE THREAD	B HEX	C HEX	H	L	M	N	FLOW DIA.D
XV500P-4	1/4	15/16	15/16	3.96	4.90	2.03	2.47	.375
XV500P-6	3/8	15/16	15/16	3.96	4.90	2.03	2.47	.375
XV500P-8	1/2*	1-1/16	1-1/16	3.96	5.00	2.20	2.58	.500
XV500P-12	3/4**	1-1/4	1-5/16	3.96	5.25	2.42	2.81	.685
XV500P-16	1**	1-1/2	1-9/16	3.96	5.34	2.75	3.08	.875



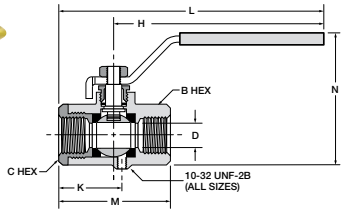
Female-Female Pipe Ends XV500P-20, XV500P-24, XV500P-32

PART NO.	PIPE THREAD [NPT]	OCTAGON	H	L	M	N	FLOW DIA.D
XV500P-20	1-1/4	1.93	6.22	8.05	3.66	3.01	1.18
XV500P-24	1-1/2	2.13	6.22	8.23	4.02	3.25	1.50
XV500P-32	2	2.69	6.22	8.58	4.76	3.52	1.89



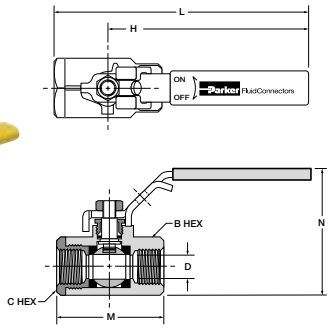
Vented, Female Pipe Ends XVV500P

PART NO.	PIPE THREAD	B HEX	C HEX	K	H	L	M	N	D FLOW Ø
XVV500P-4	1/4	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
XVV500P-6	3/8	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
XVV500P-8	1/2*	1-1/16	1-1/16	1.23	3.96	5.00	2.20	2.58	.500
XVV500P-12	3/4**	1-1/4	1-5/16	1.45	3.96	5.25	2.42	2.81	.685
XVV500P-16	1**	1-1/2	1-9/16	1.58	3.96	5.34	2.75	3.08	.875



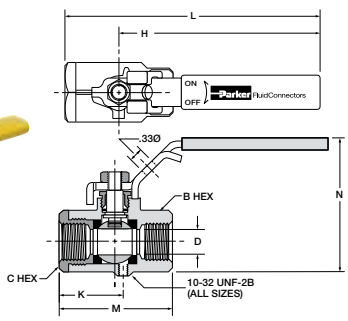
Locking Handle, Female Pipe Ends XVP500P

PART NO.	PIPE THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XVP500P-4	1/4	15/16	15/16	3.96	4.90	2.03	2.47	.375
XVP500P-6	3/8	15/16	15/16	3.96	4.90	2.03	2.47	.375
XVP500P-8	1/2*	1-1/16	1-1/16	3.96	5.00	2.20	2.58	.500
XVP500P-12	3/4**	1-1/4	1-5/16	3.96	5.25	2.42	2.81	.685
XVP500P-16	1**	1-1/2	1-9/16	3.96	5.34	2.75	3.08	.875
FOR USE WITH 5/16" Ø SHANK LOCK; .33Ø								
XVP500P-20	1-1/4	1-15/16	1-15/16	6.22	8.05	3.66	4.04	1.180
XVP500P-24	1-1/2	2-1/8	2-1/8	6.22	8.23	4.02	4.52	1.500
XVP500P-32	2	2-11/16	2-11/16	6.22	8.60	4.76	5.07	1.890
FOR USE WITH 9/32" Ø SHANK LOCK; .31Ø								



OSHA 29 CFR Part 1910 Vented, Locking Handle, Female Pipe Ends XVVP500P

PART NO.	PIPE THD	B HEX	C HEX	K	H	L	M	N	D FLOW Ø
XVVP500P-4	1/4	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
XVVP500P-6	3/8	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
XVVP500P-8	1/2*	1-1/16	1-1/16	1.23	3.96	5.00	2.20	2.58	.500
XVVP500P-12	3/4**	1-1/4	1-5/16	1.45	3.96	5.25	2.42	2.81	.685
XVVP500P-16	1**	1-1/2	1-9/16	1.58	3.96	5.34	2.75	3.08	.875
FOR USE WITH 5/16" Ø SHANK LOCK									



*PTF Special Short. **PTF Special Extra Short

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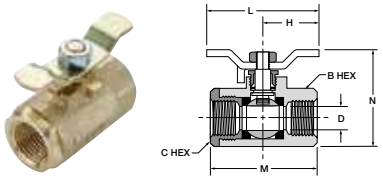
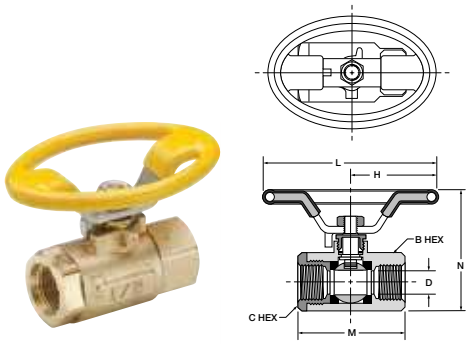
Tee Handle, Female Pipe Ends XV500P-X-04

PART NO.	PIPE THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV500P-4-04	1/4	15/16	15/16	1.25	2.50	2.03	1.87	.375
XV500P-6-04	3/8	15/16	15/16	1.25	2.50	2.03	1.87	.375
XV500P-8-04	1/2*	1-1/16	1-1/16	1.25	2.50	2.20	1.98	.500
XV500P-12-04	3/4**	1-1/4	1-5/16	1.25	2.50	2.42	2.20	.685
XV500P-16-04	1**	1-1/2	1-9/16	1.25	2.50	2.75	2.48	.875



Oval Handle, Female Pipe Ends XV500P-X-21

PART NO.	PIPE THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV500P-4-21	1/4	15/16	15/16	1.74	3.49	2.03	2.38	.375
XV500P-6-21	3/8	15/16	15/16	1.74	3.49	2.03	2.38	.375
XV500P-8-21	1/2*	1-1/16	1-1/16	1.74	3.49	2.20	2.49	.500
XV500P-12-21	3/4**	1-1/4	1-5/16	1.74	3.48	2.42	2.71	.685
XV500P-16-21	1**	1-1/2	1-9/16	1.74	3.48	2.75	2.99	.875



*PTF Special Short. **PTF Special Extra Short

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Fluid System Connectors
Otsego, Michigan

Male /Female Brass Ball Valves Series 501

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

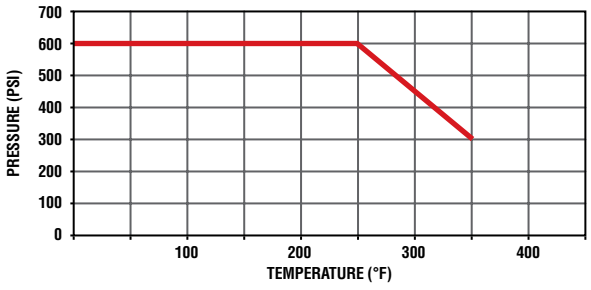
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	501	P	-4	-00
STYLE	• V-VALVE • VP-VALVE, PADLOCKING HANDLE • VV-VALVE, VENTED • VVP-VALVE, VENTED, PADLOCKING HANDLE			
TYPE	501-MALE/FEMALE PTF PORTS			
MATERIAL	P- BRASS PN-NICKEL PLATED			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1"			
OPTIONS	• 01-STAINLESS STEEL BALL & STEM • 02-STAINLESS STEEL HANDLE & NUT • 03-STAINLESS STEEL BALL, STEM, HANDLE & NUT • 04-TEE HANDLE • 08-UNMARKED YELLOW VINYL HANDLE COVER • 21-OVAL HANDLE			

SPECIFICATIONS	
OPERATING INSTRUCTIONS:	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
PRESSURE RANGE:	• 600 WOG, COLD NON-SHOCK • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG. • VENTED UP TO 250 PSI
TEMPERATURE RANGES:	0° TO +350°F
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

FLOW DATA	
VALVE SIZE	CV
1/4	6.3
3/8	5.7
1/2	10.0
3/4	25.0
1	35.0

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use as fuel line shutoffs for gasoline and diesel powered over highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.



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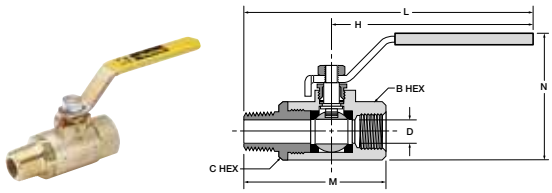
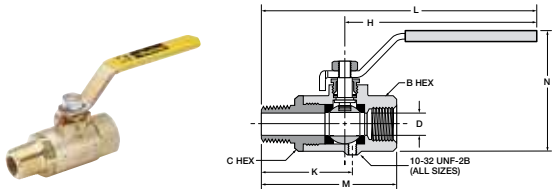


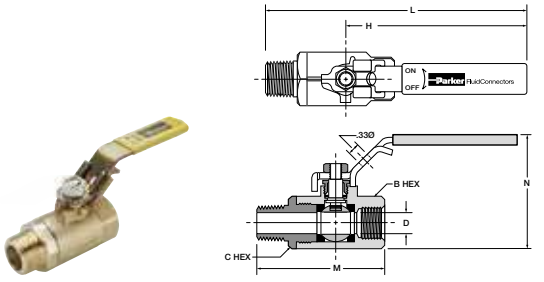
Male-Female Pipe Ends XV501P

PART NO.	FEMALE PIPE THRD [PTF]	MALE PIPE THRD [NPTF]	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV501P-4	1/4	1/4	15/16	15/16	3.96	5.46	2.59	2.47	.344
XV501P-6	3/8	3/8	15/16	15/16	3.96	5.46	2.59	2.47	.375
XV501P-8	1/2*	1/2	1-1/16	1-1/16	3.96	5.75	2.94	2.58	.500
XV501P-12	3/4**	3/4*	1-1/4	1-5/16	3.96	5.83	3.00	2.81	.685
XV501P-16	1**	1*	1-1/2	1-9/16	3.96	6.19	3.60	3.08	.875



Vented, Male-Female Pipe Ends XVV501P

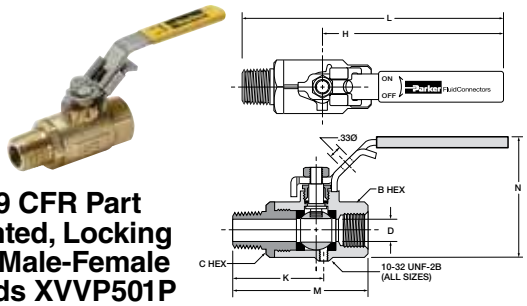
PART NO.	FEMALE PIPE THRD [PTF]	MALE PIPE THRD [NPTF]	B HEX	C HEX	K	H	L	M	N	D FLOW Ø
XVV501P-4	1/4	1/4	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.344
XVV501P-6	3/8	3/8	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.375
XVV501P-8	1/2*	1/2	1-1/16	1-1/16	1.98	3.96	5.75	2.95	2.58	.500
XVV501P-12	3/4**	3/4*	1-1/4	1-5/16	2.03	3.96	5.83	3.00	2.81	.685
XVV501P-16	1**	1*	1-1/2	1-9/16	2.43	3.96	6.19	3.60	3.08	.875



Locking Handle, Male-Female Pipe Ends XVP501P

PART NO.	FEMALE PIPE THRD [PTF]	MALE PIPE THRD [NPTF]	B HEX	C HEX	H	L	M	N	D FLOW Ø
XVP501P-4	1/4	1/4	15/16	15/16	3.96	5.46	2.59	2.47	.344
XVP501P-6	3/8	3/8	15/16	15/16	3.96	5.46	2.59	2.47	.375
XVP501P-8	1/2*	1/2	1-1/16	1-1/16	3.96	5.75	2.95	2.58	.500
XVP501P-12	3/4**	3/4*	1-1/4	1-5/16	3.96	5.83	3.00	2.81	.685
XVP501P-16	1**	1*	1-1/2	1-9/16	3.96	6.19	3.60	3.08	.875

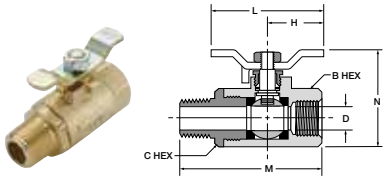
For use with 5/16" Ø shank lock



OSHA 29 CFR Part 1910 Vented, Locking Handle, Male-Female Pipe Ends XVVP501P

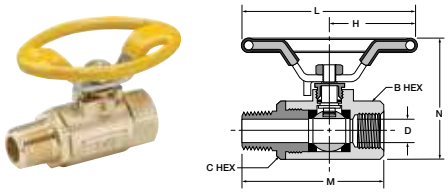
PART NO.	FEMALE PIPE THRD [PTF]	MALE PIPE THRD [NPTF]	B HEX	C HEX	K	H	L	M	N	D FLOW Ø
XVVP501P-4	1/4	1/4	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.344
XVVP501P-6	3/8	3/8	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.375
XVVP501P-8	1/2*	1/2	1-1/16	1-1/16	1.98	3.96	5.75	2.95	2.58	.500
XVVP501P-12	3/4**	3/4	1-1/4	1-5/16	2.03	3.96	5.83	3.00	2.81	.685
XVVP501P-16	1**	1	1-1/2	1-9/16	2.43	3.96	6.19	3.60	3.08	.875

For use with 5/16" Ø shank lock



Tee Handle, Male-Female Pipe Ends XV501P-X-04

PART NO.	FEMALE PIPE THRD [PTF]	MALE PIPE THRD [NPTF]	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV501P-4-04	1/4	1/4	15/16	15/16	1.25	2.50	2.59	1.87	.344
XV501P-6-04	3/8	3/8	15/16	15/16	1.25	2.50	2.59	1.87	.375
XV501P-8-04	1/2*	1/2	1-1/16	1-1/16	1.25	2.50	2.95	1.98	.500
XV501P-12-04	3/4**	3/4	1-1/4	1-5/16	1.25	2.50	3.00	2.20	.685
XV501P-16-04	1**	1	1-1/2	1-9/16	1.25	2.50	3.60	2.48	.875



Oval Handle, Male-Female Pipe Ends XV501P-X-21

PART NO.	FEMALE PIPE THRD [PTF]	MALE PIPE THRD [NPTF]	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV501P-4-21	1/4	1/4	15/16	15/16	1.74	3.49	2.59	2.38	.344
XV501P-6-21	3/8	3/8	15/16	15/16	1.74	3.49	2.59	2.38	.375
XV501P-8-21	1/2*	1/2	1-1/16	1-1/16	1.74	3.49	2.95	2.49	.500
XV501P-12-21	3/4**	3/4	1-1/4	1-5/16	1.74	3.48	3.00	2.71	.685
XV501P-16-21	1**	1	1-1/2	1-9/16	1.74	3.48	3.60	2.99	.875

*PTF Special Short. **PTF Special Extra Short

K

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Panel Mount Ball Valves
Series 502

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

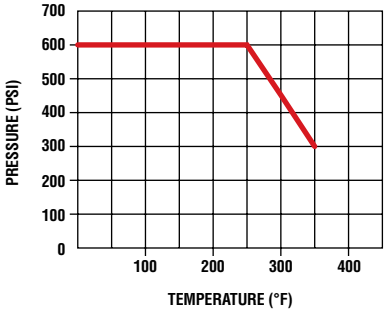
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	502	P	-4	-00
STYLE	• V-VALVE • VP-VALVE, PADLOCKING HANDLE • VV-VALVE, VENTED • VVP-VALVE, VENTED, PADLOCKING HANDLE			
TYPE	502-FEMALE/FEMALE PTF PORTS			
MATERIAL	P- BRASS PN-NICKEL PLATED			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1"			
OPTIONS	• 01-STAINLESS STEEL BALL & STEM • 02-STAINLESS STEEL HANDLE & NUT • 03-STAINLESS STEEL BALL, STEM, HANDLE & NUT • 04-TEE HANDLE • 08-UNMARKED YELLOW VINYL HANDLE COVER • 21-OVAL HANDLE			

SPECIFICATIONS	
OPERATING INSTRUCTIONS:	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
PRESSURE RANGE:	• 600 WOG, COLD NON-SHOCK • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG. • VENTED UP TO 250 PSI
TEMPERATURE RANGES:	0° TO +350°F
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

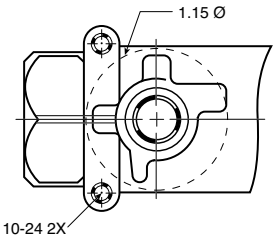
FLOW DATA	
VALVE SIZE	CV
1/4	4.0
3/8	5.8
1/2	12.0
3/4	25.0
1	35.0

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

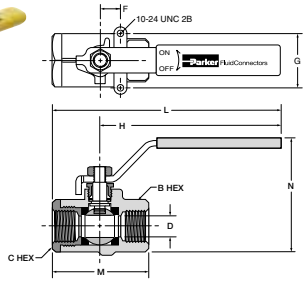
For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.



Mounting detail for all sizes

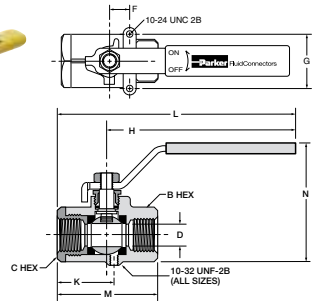


Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan



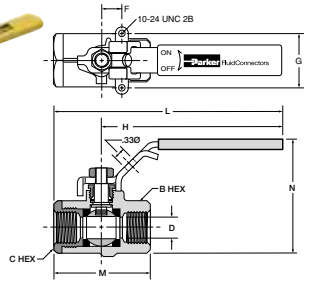
Female-Female Pipe Ends, Panel Mount XV502P

PART NO.	PIPE THD.	B HEX	C HEX	F	G	H	L	M	N	FLOW DIA. D
XV502P-4	1/4	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
XV502P-6	3/8	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
XV502P-8	1/2*	1-1/16	1-1/16	.50	1.12	3.96	5.00	2.20	2.58	.500
XV502P-12	3/4**	1-1/4	1-5/16	.87	1.37	3.96	5.25	2.42	2.81	.685
XV502P-16	1**	1-1/2	1-9/16	.87	1.37	3.96	5.34	2.75	3.08	.875



Vented, Female-Female Pipe Ends, Panel Mount XVV502P

PART NO.	PIPE THD.	B HEX	C HEX	F	G	K	H	L	M	N	D FLOW Ø
XVV502P-4	1/4	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
XVV502P-6	3/8	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
XVV502P-8	1/2*	1-1/16	1-1/16	.50	1.12	1.23	3.96	5.00	2.20	2.58	.500
XVV502P-12	3/4**	1-1/4	1-5/16	.87	1.37	1.45	3.96	5.25	2.42	2.81	.685
XVV502P-16	1**	1-1/2	1-9/16	.87	1.37	1.58	3.96	5.34	2.75	3.08	.875

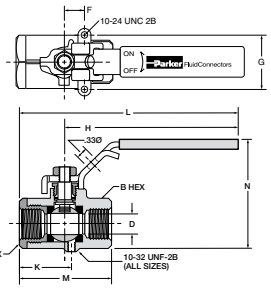


Locking Handle, Female Pipe Ends, PanelMount XVP502P

PART NO.	PIPE THD.	B HEX	C HEX	F	G	H	L	M	N	D FLOW Ø
XVP502P-4	1/4	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
XVP502P-6	3/8	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
XVP502P-8	1/2*	1-1/16	1-1/16	.50	1.12	3.96	5.00	2.20	2.58	.500
XVP502P-12	3/4**	1-1/4	1-5/16	.87	1.37	3.96	5.25	2.42	2.81	.685
XVP502P-16	1**	1-1/2	1-9/16	.87	1.37	3.96	5.34	2.75	3.08	.875

For use with 5/16" Ø shank lock

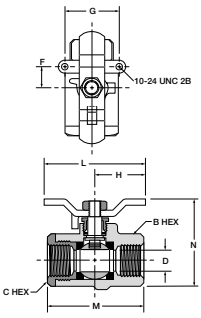
*PTF Special Short. **PTF Special Extra Short



OSHA 29 CFR Part 1910 Vented, Locking Handle, Female Pipe Ends, Panel Mount XVVP502P

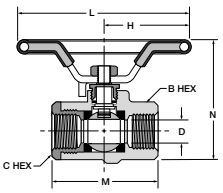
PART NO.	PIPE THD.	B HEX	C HEX	F	G	K	H	L	M	N	D FLOW Ø
XVVP502P-4	1/4	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
XVVP502P-6	3/8	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
XVVP502P-8	1/2*	1-1/16	1-1/16	.50	1.12	1.23	3.96	5.00	2.20	2.58	.500
XVVP502P-12	3/4**	1-1/4	1-5/16	.87	1.37	1.45	3.96	5.25	2.42	2.81	.685
XVVP502P-16	1**	1-1/2	1-9/16	.87	1.37	1.58	3.96	5.34	2.75	3.08	.875

For use with 5/16" Ø shank lock



Tee Handle, Female Pipe Ends, Panel Mount XV502P-X-04

PART NO.	PIPE THD.	B HEX	C HEX	F	G	H	L	M	N	D FLOW Ø
XV502P-4-04	1/4	15/16	15/16	.50	1.12	1.25	2.50	2.03	1.87	.375
XV502P-6-04	3/8	15/16	15/16	.50	1.12	1.25	2.50	2.03	1.87	.375
XV502P-8-04	1/2*	1-1/16	1-1/16	.50	1.12	1.25	2.50	2.20	1.98	.500
XV502P-12-04	3/4**	1-1/4	1-5/16	.87	1.37	1.25	2.50	2.42	2.20	.685
XV502P-16-04	1**	1-1/2	1-9/16	.87	1.37	1.25	2.50	2.75	2.48	.875



Oval Handle, Female Pipe Ends, Panel Mount XV502P-X-21

PART NO.	PIPE THD.	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV502P-4-21	1/4	15/16	15/16	1.74	3.49	2.03	2.38	.375
XV502P-6-21	3/8	15/16	15/16	1.74	3.49	2.03	2.38	.375
XV502P-8-21	1/2*	1-1/16	1-1/16	1.74	3.49	2.20	2.49	.500
XV502P-12-21	3/4**	1-1/4	1-5/16	1.74	3.48	2.42	2.71	.685
XV502P-16-21	1**	1-1/2	1-9/16	1.74	3.48	2.75	2.99	.875

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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Female/Female Straight Thread Brass Ball Valve Series 506

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	506	P	-4	-00
STYLE	• V-VALVE • VP-VALVE, PADLOCKING HANDLE			
TYPE	506 FEMALE/FEMALE SAE J1926-1 PORTS			
MATERIAL	P- BRASS			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"			
OPTIONS	• 01-STAINLESS STEEL BALL & STEM • 02-STAINLESS STEEL HANDLE & NUT* • 03-STAINLESS STEEL BALL, STEM, HANDLE & NUT • 04-TEE HANDLE* • 08-UNMARKED YELLOW VINYL HANDLE COVER* • 21-OVAL HANDLE			

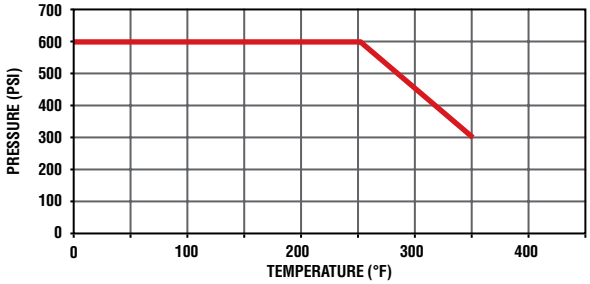
SPECIFICATIONS	
PRESSURE RANGE:	• 600 WOG, COLD NON-SHOCK • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG.
TEMPERATURE RANGES:	0° TO +350°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF". (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

FLOW DATA	
VALVE SIZE	CV
1/4	4.0
3/8	5.8
1/2	12.0
3/4	25.0
1	35.0
1-1/4*	57.0
1-1/2*	92.0
2*	224.0

*For these part numbers only the * options are available.

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use on construction equipment, chemical processing, plastic and rubber manufacturing, pumps and specialized industrial machinery requiring total shut-off capability.



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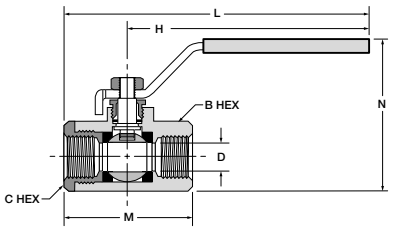
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

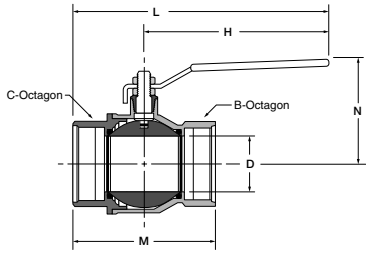
Female/Female, Straight Thread O-Ring Port XV506P

PART NO.	STRT. THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV506P-4	7/16-20	15/16	15/16	3.96	5.01	2.20	2.47	.375
XV506P-6	9/16-18	15/16	15/16	3.96	5.07	2.26	2.47	.375
XV506P-8	3/4-16	1-1/16	1-1/16	3.96	5.18	2.42	2.60	.500
XV506P-12	1-1/16-12	1-1/4	1-5/16	3.96	5.87	3.46	2.81	.685
XV506P-16	1-5/16-12	1-1/2	1-9/16	3.96	5.96	3.68	3.08	.875



Female/Female, Straight Thread O-Ring Port XV506P-20, XV506P-24, XV506P-32

PART NO.	STRT. THREAD	B OCT	C OCT	H	L	M	N	D FLOW Ø
XV506P-20	1 5/8-12	1.93	1.93	6.22	8.05	3.66	3.01	1.18
XV506P-24	1 7/8-12	2.13	2.13	6.22	8.23	4.02	3.25	1.50
XV506P-32	2 1/2-12	2.85	2.85	6.22	8.60	4.76	3.52	1.89



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Solder End Ball Valves
Series 509

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	600 WOG, COLD NON-SHOCK SATURATED STEAM UP TO 150 PSI
TEMPERATURE RANGE	0° TO +350°F SOLDER TEMPERATURE NOT TO EXCEED 470°F

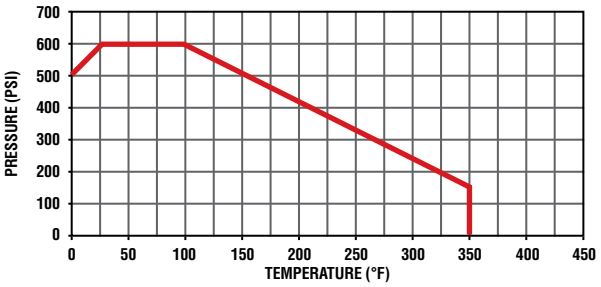
STYLE	TYPE	MATERIAL	SIZE
V	509	P	-4
STYLE	V-VALVE		
TYPE	509-SOLDER ENDS		
MATERIAL	P-BRASS		
SIZE	8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"		

	MELTING RANGE	WORKING TEMP.	MAX. WORKING PRESSURE (PSI)	
JOINING MATERIAL	°F	°F	SIZE 1/2 - 1"	SIZE 1-1/4" - 2"
50-50 TIN-LEAD SOLDER	361-421	100 150 200 250	200 150 100 85	175 125 90 75
95-5 TIN ANTIMONY SOLDER	450-464	100 150 200 250	400 400 300 200	400 350 250 175

SPECIFICATIONS	
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

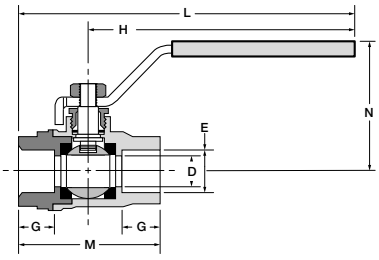
These valves are ideal for water and air service lines on capital equipment and plant design plumbing that require total shut-off capability. Use with ASTM B88 copper water tubing.



FLOW DATA	
VALVE SIZE	CV
1/2"	26
3/4"	69
1"	91
1 1/4"	127
1 1/2"	299
2"	425

Solder Cup Ends XV509P

PART NO.	TUBE SIZE	E	G	H	L	M	N	FLOW DIA. D
XV509P-8	1/2	.630	.49	3.94	5.00	2.24	1.69	.55
XV509P-12	3/4	.877	.75	4.72	6.10	2.85	1.97	.75
XV509P-16	1	1.128	.90	4.72	6.40	3.35	2.13	.94
XV509P-20	1 1/4	1.378	.96	6.22	8.13	3.82	3.01	1.18
XV509P-24	1 1/2	1.628	1.10	6.22	8.46	4.49	3.25	1.50
XV509P-32	2	2.128	1.34	6.22	8.94	5.43	3.52	1.89



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Male/Female Straight Thread Ball Valves Series 510

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

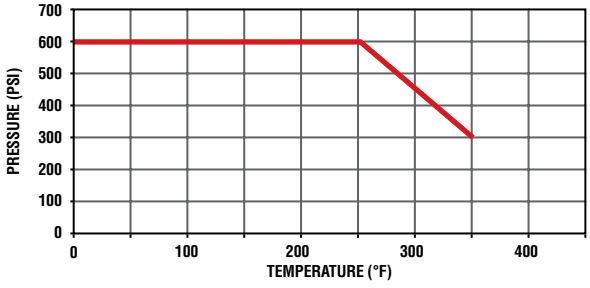
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	510	P	-4	-00
STYLE	• V-VALVE • VP-VALVE, PADLOCKING HANDLE			
TYPE	510 MALE/FEMALE STRAIGHT THREAD O-RING SAE J1926			
MATERIAL	P- BRASS			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1"			
OPTIONS	• 01-STAINLESS STEEL BALL & STEM • 02-STAINLESS STEEL HANDLE & NUT • 03-STAINLESS STEEL BALL, STEM, HANDLE & NUT • 04-TEE HANDLE • 08-UNMARKED YELLOW VINYL HANDLE COVER • 21-OVAL HANDLE			

SPECIFICATIONS	
PRESSURE RANGE:	• 600 WOG, COLD NON-SHOCK • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG. • VENTED UP TO 250 PSI
TEMPERATURE RANGES:	0° TO +350°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF". (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

FLOW DATA	
VALVE SIZE	CV
1/4	.8
3/8	2.1
1/2	5.3
5/8	7.6
3/4	13.0
1	33.0

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use on construction equipment, chemical processing, plastic and rubber manufacturing, pumps and specialized industrial machinery requiring total shut-off capability.



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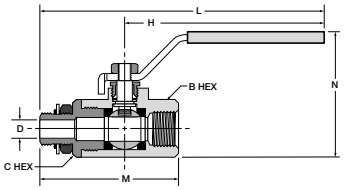
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Male-Female, Straight Thread O-Ring Port XV510P

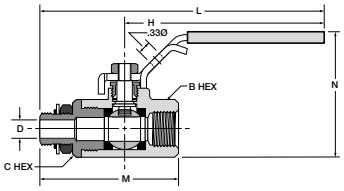
PART NO.	STRT. THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV510P-4	7/16-20	15/16	15/16	3.96	5.61	2.85	2.47	.188
XV510P-6	9/16-18	15/16	15/16	3.96	5.68	2.92	2.47	.281
XV510P-8	3/4-16	1-1/16	1-1/16	3.96	5.88	3.17	2.58	.422
XV510P-10	7/8-14	1-1/4	1-5/16	3.96	6.31	3.90	2.81	.500
XV510P-12	1-1/16-12	1-1/4	1-5/16	3.96	6.44	4.03	2.81	.656
XV510P-16	1-5/16-12	1-1/2	1-9/16	3.96	6.56	4.28	3.08	.875



Locking Handle, Straight Thread O-Ring Port XVP510P

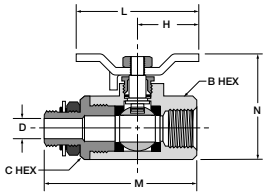
PART NO.	STRT. THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XVP510P-4	7/16-20	15/16	15/16	3.96	5.61	2.85	2.47	.188
XVP510P-6	9/16-18	15/16	15/16	3.96	5.68	2.92	2.47	.281
XVP510P-8	3/4-16	1-1/16	1-1/16	3.96	5.88	3.17	2.58	.422
XVP510P-10	7/8-14	1-1/4	1-5/16	3.96	6.31	3.90	2.81	.500
XVP510P-12	1-1/16-12	1-1/4	1-5/16	3.96	6.44	4.03	2.81	.656

For use with 5/16" Ø shank lock



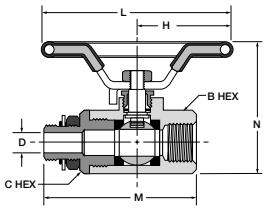
Tee Handle, Straight Thread O-Ring Port XV510P-X-04

PART NO.	STRT. THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV510P-4-04	7/16-20	15/16	15/16	1.25	2.50	2.85	1.87	.188
XV510P-6-04	9/16-18	15/16	15/16	1.25	2.50	2.92	1.87	.281
XV510P-8-04	3/4-16	1-1/16	1-1/16	1.25	2.50	3.17	1.98	.422
XV510P-10-04	7/8-14	1-1/4	1-5/16	1.25	2.50	3.90	2.20	.500
XV510P-12-04	1-1/16-12	1-1/4	1-5/16	1.25	2.50	4.03	2.20	.656
XV510P-16-04	1-5/16-12	1-1/2	1-9/16	1.25	2.50	4.28	2.48	.875



Oval Handle, Straight Thread O-Ring Port XV510P-X-21

PART NO.	STRT. THREAD	B & C HEX	H	L	M	N	D FLOW Ø
XV510P-4-21	7/16-20	15/16	1.74	3.49	2.85	2.38	.188
XV510P-6-21	9/16-18	15/16	1.74	3.49	2.92	2.38	.281
XV510P-8-21	3/4-16	1 1/16	1.74	3.49	3.17	2.49	.422
XV510P-12-21	1-1/16-12	1-1/4 (B) 1-5/16 (C)	1.75	3.49	4.03	2.71	.656



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

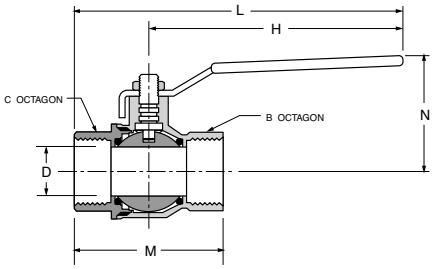
Brass Ball Valves Series 520

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
STEM O-RINGS:	VITON
HANDLE:	STEEL

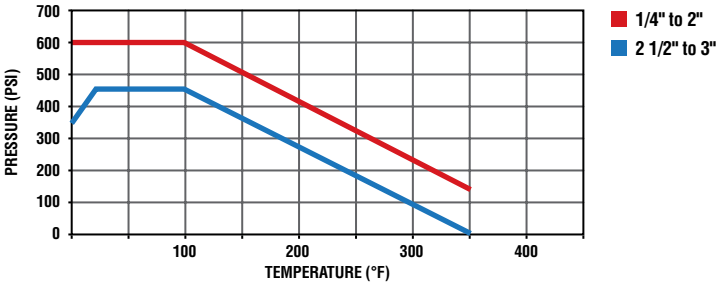
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	520	P	-4	-00
STYLE	V-VALVE			
TYPE	520-FEMALE/FEMALE NPT PORTS			
MATERIAL	P- BRASS			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"			
OPTIONS	04-TEE HANDLE			

SPECIFICATIONS	
OPERATING INSTRUCTIONS:	QUARTER TURN IS "ON" OR "OFF". (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
PRESSURE RANGE:	• 600 WOG, COLD NON-SHOCK – SIZES 1/4" – 2" • 450 WOG, COLD NON-SHOCK – SIZES 2 1/2" – 3" • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG.
TEMPERATURE RANGES:	0° TO +350°F
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

U.L. LISTED	
CATEGORY	
YSDT	LP-GAS SHUT-OFF VALVES
YRBX	FLAMMABLE LIQUID SHUT-OFF VALVES
YRPV	GAS SHUT-OFF VALVES
YQNZ	COMPRESSED GAS SHUT-OFF VALVES



Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle. For use as shutoffs for highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.



Brass Ball Valve XV520P

PART NO.	PIPE THREAD	B OCTAGON	C OCTAGON	H	L	M	N	D FLOW Ø
XV520P-4	1/4-18	.79	.79	3.94	4.83	1.77	1.50	.310
XV520P-6	3/8-18	.79	.79	3.94	4.83	1.77	1.50	.400
XV520P-8	1/2-14	.98	.98	3.94	5.10	2.32	1.69	.600
XV520P-12	3/4-14	1.22	1.22	4.72	5.98	2.52	1.97	.790
XV520P-16	1-11.5	1.57	1.57	4.72	6.32	3.19	2.13	1.000
XV520P-20	1-1/4	1.93	1.93	6.22	8.05	3.66	2.82	1.250
XV520P-24	1-1/2	2.13	2.13	6.22	8.23	4.02	3.06	1.570
XV520P-32	2	2.69	2.69	6.22	8.58	4.76	3.33	2.000
XV520P-40	2-1/2	3.35	3.35	10.04	13.11	6.14	5.20	2.520
XV520P-48	3	3.89	3.89	10.04	13.52	6.97	5.51	3.000

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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Brass Ball Valves Series 533
3-Way Diversion / Series 540 4-Way

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	533	P	-4	-00
STYLE	V-VALVE P-LOCK			
TYPE	533 3-WAY DIVERSION, 540 4-WAY			
MATERIAL	P- BRASS			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1"			
OPTIONS	• 02-STAINLESS STEEL HANDLE & NUT • 08-UNMARKED YELLOW VINYL HANDLE COVER			

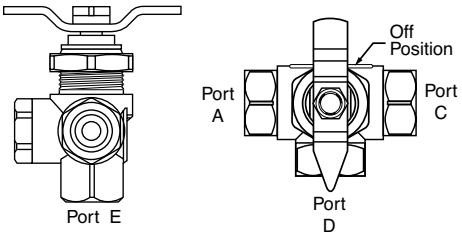
SPECIFICATIONS	
PRESSURE RANGE:	• 400 PSI • VACUUM SERVICE TO 29 INCHES HG.
TEMPERATURE RANGES:	-20° F TO 350°F
NOTE:	DIVERSION VALVES DO NOT HAVE OFF POSITIONS, THEREFORE, THE CENTER PORT CAN NOT BE USED FOR SHUT-OFF PURPOSES.
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

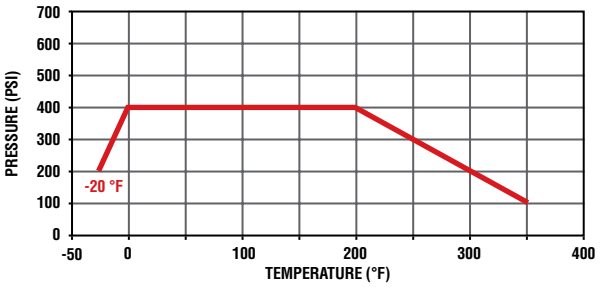
XV540P FLOW INFORMATION	
POINTER OVER	FLOW PATH
A	A TO E
OFF	CLOSED
C	C TO E
D	D TO E

Designed for applications requiring flow diversion making tank selection and fluid transfer easy. For use on construction equipment, chemical processing, pumps and specialized industrial machinery.

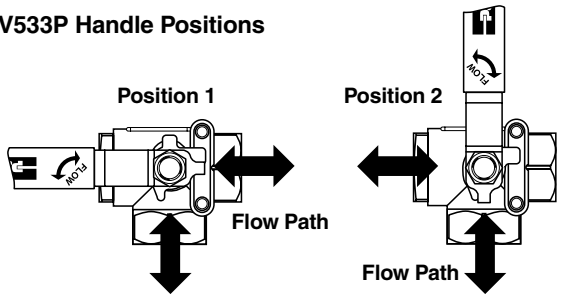
NOTE: 3-way diversion valves do not have off positions, therefore, the center port can not be used for shut-off purposes.

XV540P Handle Positions





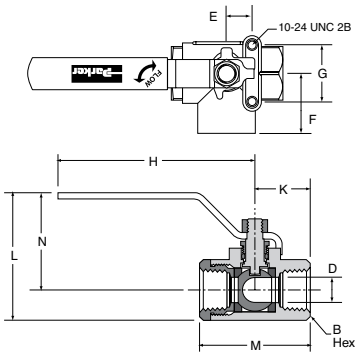
XV533P Handle Positions



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

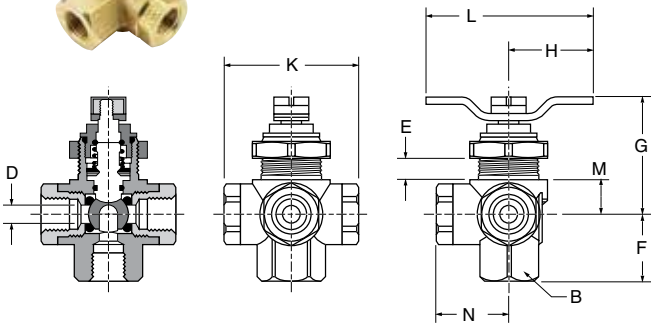
Female-Female-Female Pipe Ends XV533P

PART NO.	PIPE THD (PTF)	B HEX	E	F	G	H	K	L	M	N	FLOW DIA. D
XV533P-4	1/4	15/16	.50	1.08	1.12	3.96	1.03	2.47	2.03	1.94	.375
XV533P-6	3/8	15/16	.50	1.08	1.12	3.96	1.03	2.47	2.03	1.94	.375
XV533P-8	1/2	1-1/16	.50	1.18	1.12	3.96	1.11	2.58	2.20	1.98	.500
XV533P-12	3/4	1-1/4	.87	1.43	1.37	3.96	1.42	2.90	2.83	2.17	.685
XV533P-16	1	1-9/16	.87	1.62	1.37	3.96	1.58	3.21	3.16	2.32	.875



Female-Female-Female-Female Pipe Ends XV540P

PART NO.	PIPE THD (PTF)	B HEX	E	F	G	H	K	L	M	N	FLOW DIA. D
XV540P-4	1/4	7/8	.32	1.00	1.76	1.25	1.98	2.49	.52	1.07	.250



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

90° Ball Valves
Series 590/591

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

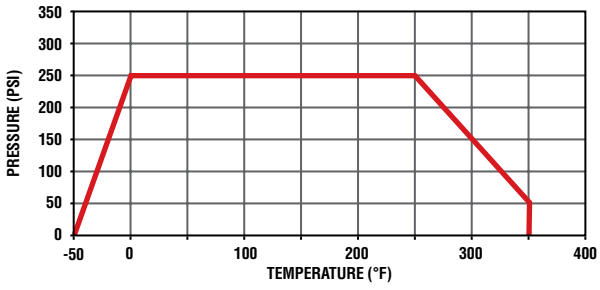
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	590	P	-8	-00
STYLE	V-VALVE			
TYPE	590-90 MALE/FEMALE 591-90 MALE/MALE			
MATERIAL	P- BRASS			
SIZE	4-1/4", 6-3/8", 8-1/2"			
OPTIONS	• 04-LEVER HANDLE • 08-UNMARKED YELLOW VINYL HANDLE COVER			

SPECIFICATIONS	
PRESSURE RANGE:	• 250 PSI • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG.
TEMPERATURE RANGES:	-50°F TO 350°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF". (PROVIDES POSITIVE STOP ACTION FOR FULL SHUT-OFF.)
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

Note: 90° Ball Valve Series 590/591 has a tee handle as standard. A Lever Handle is available as option 04.

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shut-off capability.



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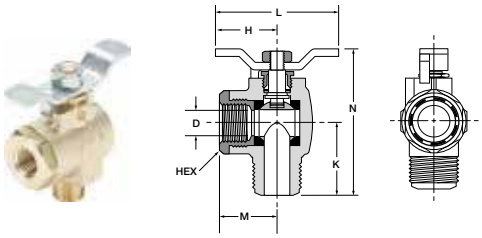
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

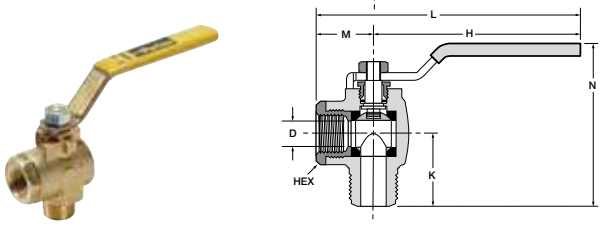
90° Flow, Male-Female Pipe Ends XV590P

PART NO.	PIPE PTF THREAD	HEX	H	K	L	M	N	D FLOW Ø
XV590P-4	1/4	15/16	1.25	1.08	2.50	1.00	2.42	.375
XV590P-6	3/8	15/16	1.25	1.09	2.50	1.00	2.43	.375
XV590P-8	1/2*	1-1/16	1.25	1.30	2.50	1.08	2.67	.500
XV590P-16	1**	1-9/16"	1.30	1.90	2.60	1.38	3.62	.750



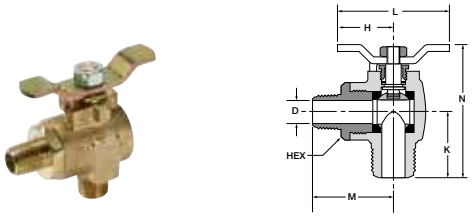
Lever Handle, 90° Flow, Male-Female Pipe Ends XV590P-X-04

PART NO.	PIPE PTF THREAD	HEX	H	K	L	M	N	D FLOW Ø
XV590P-4-04	1/4	15/16	3.96	1.08	4.96	1.00	3.02	.375
XV590P-6-04	3/8	15/16	3.96	1.09	4.96	1.00	3.03	.375
XV590P-8-04	1/2*	1-1/16	3.80	1.30	4.88	1.08	2.95	.500
XV590P-16-04	1**	1-9/16"	3.96	1.90	5.34	1.38	4.17	.750



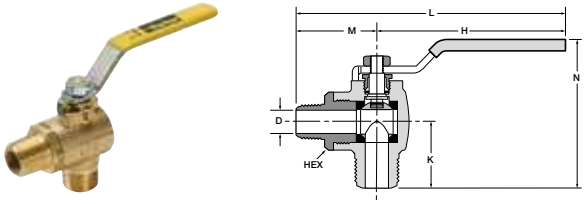
90° Flow, Male-Male Pipe Ends XV591P

PART NO.	PIPE THREAD	HEX	H	K	L	M	N	D FLOW Ø
XV591P-4	1/4	15/16	1.25	1.08	2.50	1.56	2.42	.375
XV591P-6	3/8	15/16	1.25	1.09	2.50	1.56	2.43	.375
XV591P-8	1/2	1-1/16	1.25	1.30	2.50	1.84	2.67	.500



Lever Handle, 90° Flow, Male-Male Pipe Ends XV591P-X-04

PART NO.	PIPE THREAD	HEX	H	K	L	M	N	D FLOW Ø
XV591P-4-04	1/4	15/16	3.96	1.08	5.52	1.56	3.02	.375
XV591P-6-04	3/8	15/16	3.96	1.09	5.52	1.56	3.03	.375
XV591P-8-04	1/2	1-1/16	3.80	1.30	5.64	1.84	2.95	.500



*PTF Special Short. **PTF SPL Extra Short

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Brass Hose Barb Ball Valves Series 500HB

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
HANDLE:	STEEL

SPECIFICATIONS	
PRESSURE RANGE:	• 150 PSI WOG, COLD NON-SHOCK • SATURATED STEAM UP TO 150 PSI • VACUUM SERVICE TO 29 INCHES HG.
TEMPERATURE RANGES:	0° TO +350°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF". (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle. For use on construction equipment, chemical processing, plastic and rubber manufacturing, pumps, power units, and specialized industrial machinery requiring total shut-off capability.

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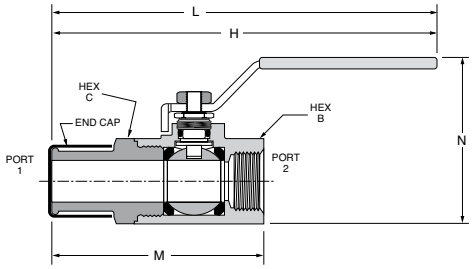
Brass Hose Barb Ball Valve XV500P-HB

PART NO.	PORT 1	PORT 2 PTF	B HEX	C HEX	H	L	M	N	FLOW DIA. D
XV500P-12-16HB	1	3/4*	1-1/4	1-5/16	3.96	6.25	3.41	2.81	.685

*PTF special extra short



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Brass Ball Valves Series 600
Six Port Diversion

MATERIALS OF CONSTRUCTION	
VALVE BODY:	FORGED BRASS
BALL:	CHROME PLATED BRASS
SEATS / SEALS:	PTFE
O-RINGS:	FLUOROCARBON
HANDLE:	STEEL

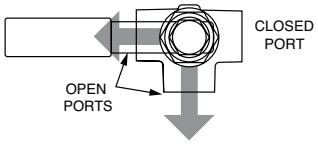
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	600	P	-8	-00
STYLE	V-VALVE			
TYPE	600 - THREE POSITION 633 - TWO POSITION			
MATERIAL	P- BRASS			
SIZE	8-1/2"			

SPECIFICATIONS	
PRESSURE RANGE:	• 150 PSI • VACUUM SERVICE TO 29 INCHES HG.
TEMPERATURE RANGES:	0° TO +250°F
OPERATING INSTRUCTIONS	POSITION HANDLE IN QUARTER-TURN INCREMENTS TO DESIRED FLOW CONFIGURATION. DETENT MECHANISM ASSITS IN ACCURATELY POSITIONING HANDLE.

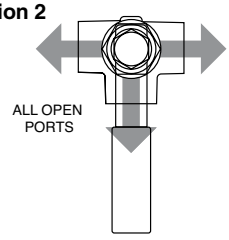
This valve can be used on applications where a fluid return or spillback is required. For use on construction equipment, chemical processing, diesel engines, filter banks, pumps and specialized industrial machinery.

Series 600 Handle Positions

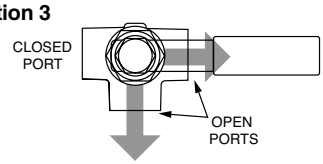
Position 1



Position 2

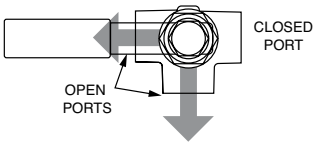


Position 3

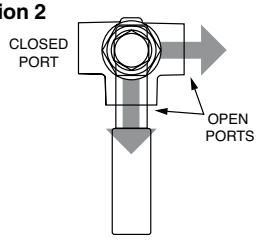


Series 633 Handle Positions

Position 1



Position 2



NOTE: Diversion valves do not have off positions, therefore, the center ports can not be used for shut-off purposes.

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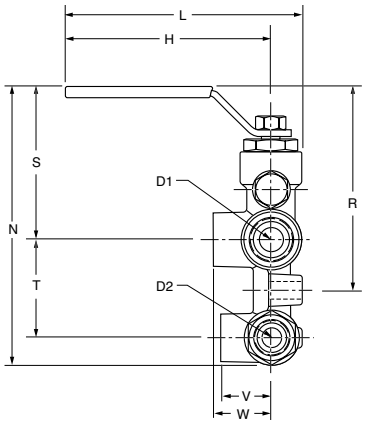
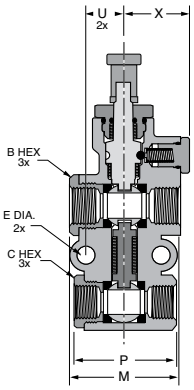
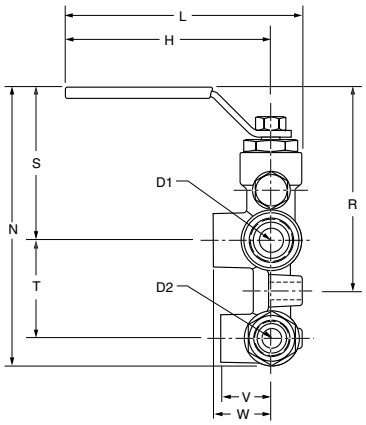
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

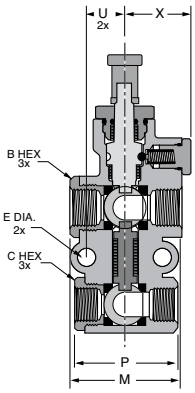




Six Port Diversion Brass Valve XV600P

PIPE THD. PART NO.	PIPE THD. TOP PORT SPL SHORT	BOTTOM PORT PTF	B HEX	C HEX	D1 FLOW	D2 FLOW	E	H	L	M	N	P	R	S	T	U	V	W	X
XV600P-8-6	1/2	3/8	1 1/16	15/16	.500	.375	.34	3.96	4.56	2.20	5.43	2.03	3.98	2.99	1.91	.73	.98	1.12	1.31





Six Port Diversion Brass Valve XV633P

PIPE THD. PART NO.	PIPE THD. TOP PORT SPL SHORT	BOTTOM PORT PTF	B HEX	C HEX	D1 FLOW	D2 FLOW	E	H	L	M	N	P	R	S	T	U	V	W	X
XV633P-8-6	1/2	3/8	1 1/16	15/16	.500	.375	.34	3.96	4.56	2.20	5.43	2.03	3.98	2.99	1.91	.73	.98	1.12	1.31

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*PTF Special Short. **PTF Special Extra Short

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Carbon Steel Ball Valves
Series 500CS/502CS

MATERIALS OF CONSTRUCTION	
VALVE BODY:	CARBON STEEL PHOSPHATE COATED
BALL:	STEEL
SEATS / SEALS:	PTFE
HANDLE:	STEEL

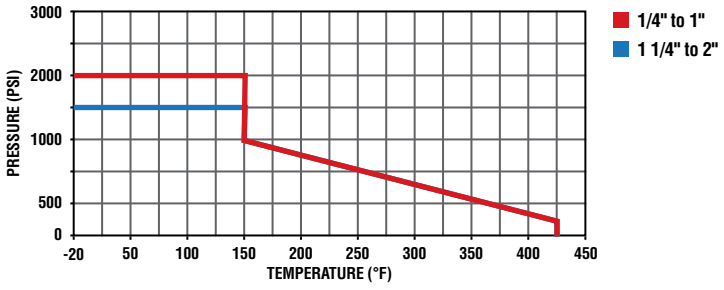
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	500	CS	-4	-00
STYLE	• V-VALVE • VP-VALVE, PADLOCKING HANDLE			
TYPE	500 FEMALE/FEMALE PTF PORTS			
MATERIAL	CS-CRARBON STEEL			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"			
OPTIONS	• 04-TEE HANDLE • 21-OVAL HANDLE			

SPECIFICATIONS	
PRESSURE RANGE:	• 2,000 PSI SIZES: 1/4" – 1" • 1,500 PSI SOZES: 1 1/4" – 2" • SATURATED STEAM UP TO 150 PSI
TEMPERATURE RANGES:	-20°F TO 425°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)
NOTE:	PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

FLOW DATA	
VALVE SIZE	CV
1/4	6.0
3/8	12.8
1/2	15.0
3/4	23.0
1	36.0
1-1/4	44.0
1-1/2	64.0
2	114.0

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway, and construction equipment vehicles. Hydraulic and general industrial applications on capital equipment and plant design plumbing that require total shutoff capability.



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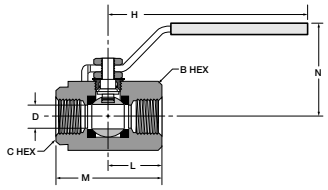
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

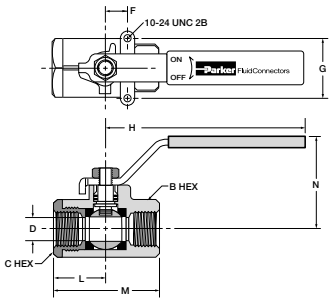
Female-Female Pipe Ends XV500CS

PART NO.	PIPE THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV500CS-4	1/4	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
XV500CS-6	3/8	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
XV500CS-8	1/2	1-1/4	1-1/16	3.78	1.25	2.37	1.73	.540
XV500CS-12	3/4	1-5/8	1-3/8	5.10	1.50	2.90	2.08	.680
XV500CS-16	1	2	1-5/8	5.10	1.76	3.41	2.30	.880



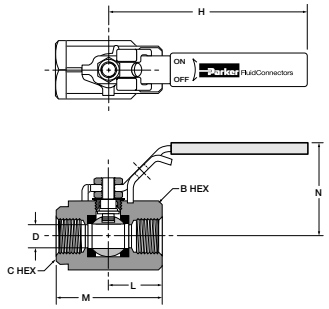
Female-Female Pipe Ends, Panel Mount XV502CS

PART NO.	PIPE THD	B HEX	C HEX	F	G	H	L	M	N	FLOW DIA. D
XV502CS-20	1-1/4	2	2-1/4	.94	1.50	6.10	1.87	3.80	2.76	1.000
XV502CS-24	1-1/2	2-5/16	2-1/2	.94	1.50	6.10	2.27	4.55	2.98	1.250
XV502CS-32	2	2-3/4	3	1.03	2.00	8.60	2.42	4.83	3.54	1.500



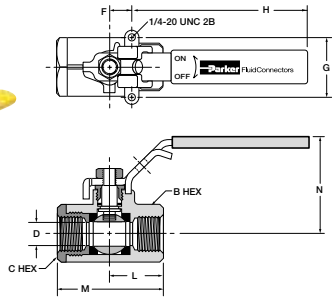
Locking Handle, Female Pipe Ends XVP500CS

PART NO.	PIPE THD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XVP500CS-4	1/4	1-1/16	15/16	4.13	1.00	2.00	2.23	.400
XVP500CS-6	3/8	1-1/16	15/16	4.13	1.00	2.00	2.23	.400
XVP500CS-8	1/2	1-1/4	1-1/16	4.13	1.25	2.37	2.33	.540
XVP500CS-12	3/4	1-5/8	1-3/8	5.00	1.50	2.90	2.80	.680
XVP500CS-16	1	2	1-5/8	5.00	1.76	3.41	2.97	.880



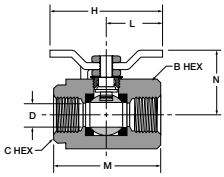
Locking Handle, Female Pipe Ends, Panel Mount XVP502CS

PART NO.	PIPE THD	B HEX	C HEX	F	G	H	L	M	N	FLOW DIA. D
XVP502CS-20	1-1/4	2	2-1/4	.94	1.50	7.50	1.87	3.80	3.15	1.000
XVP502CS-24	1-1/2	2-5/16	2-1/2	.94	1.50	7.50	2.27	4.55	3.37	1.250
XVP502CS-32	2	2-3/4	3	1.03	2.00	8.75	2.42	4.83	3.46	1.500



Tee Handle, Female Pipe Ends XV500CS-X-04

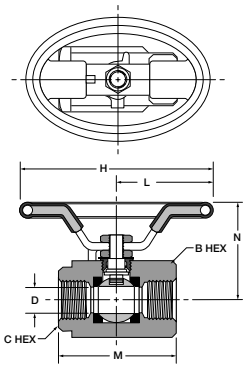
PART NO.	PIPE THD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV500CS-4-04	1/4	1-1/16	15/16	2.16	1.08	2.00	1.41	.400
XV500CS-6-04	3/8	1-1/16	15/16	2.16	1.08	2.00	1.41	.400
XV500CS-8-04	1/2	1-1/4	1-1/16	2.90	1.45	2.37	1.66	.540
XV500CS-12-04	3/4	1-5/8	1-3/8	3.63	1.81	2.90	2.06	.680
XV500CS-16-04	1	2	1-5/8	3.63	1.81	3.41	2.23	.880



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

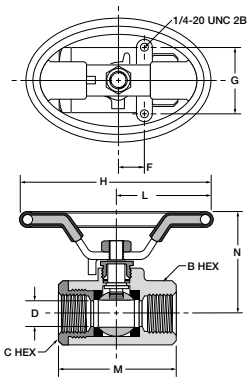
Oval Handle, Female Pipe Ends XV500CS-X-21

PART NO.	PIPE THD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV500CS-4-21	1/4	1-1/16	15/16	3.50	1.00	2.00	1.66	.400
XV500CS-6-21	3/8	1-1/16	15/16	3.50	1.00	2.00	1.66	.400
XV500CS-8-21	1/2	1-1/4	1-1/16	3.50	1.13	2.37	1.76	.540
XV500CS-12-21	3/4	1-5/8	1-3/8	5.00	1.46	2.90	2.13	.680
XV500CS-16-21	1	2	1-5/8	5.00	1.58	3.41	2.29	.880



Oval Handle, Female Pipe Ends, Panel Mount XV502CS-X-21

PART NO.	PIPE THD	B HEX	C HEX	F	G	H	L	M	N	FLOW DIA. D
XV502CS-20-21	1-1/4	2	2-1/4	.94	1.50	5.07	2.53	3.80	3.04	1.000
XV502CS-24-21	1-1/2	2-5/16	2-1/2	.94	1.50	5.07	2.53	4.55	3.26	1.250
XV502CS-32-21	2	2-3/4	3	1.03	2.00	6.50	3.25	4.83	3.57	1.500



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Carbon Steel Ball Valves
Series 506CS

MATERIALS OF CONSTRUCTION	
VALVE BODY:	CARBON STEEL PHOSPHATE COATED
BALL:	STEEL
SEATS / SEALS:	PTFE
HANDLE:	STEEL

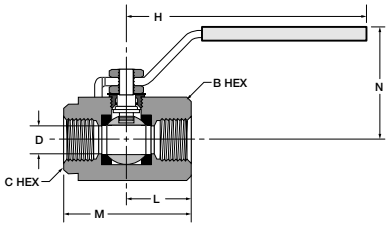
STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	506	CS	-4	-00
STYLE	• V-VALVE • VP-VALVE, PADLOCKING HANDLE			
TYPE	506-FEMALE/FEMALE SAE STRAIGHT THREAD PORTS			
MATERIAL	CS-CRARBON STEEL			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1"			

SPECIFICATIONS	
PRESSURE RANGE:	• 3,000 PSI • SATURATED STEAM UP TO 150 PSI
TEMPERATURE RANGES:	-20°F TO 425°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)

FLOW DATA	
VALVE SIZE	CV
1/4	6.0
3/8	12.0
1/2	15.0
3/4	34.0
1	54.0

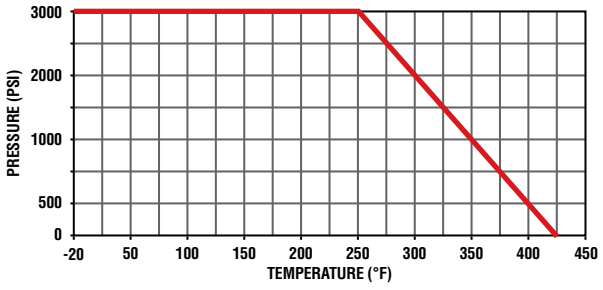
Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway, and construction equipment vehicles. Hydraulic and general industrial applications on capital equipment and plant design plumbing that require total shutoff capability.



Female-Female SAE Straight Thread Ports XV506CS

PART NO.	STRAIGHT THREAD	B HEX	C HEX	H	L	M	N	D FLOW Ø
XV506CS-4	7/16-20	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
XV506CS-6	9/16-18	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
XV506CS-8	3/4-16	1-5/8	1-1/4	4.78	1.32	2.84	2.16	.500
XV506CS-12	1-1/16-12	1-7/8	1-5/8	4.78	1.66	3.71	2.35	.750
XV506CS-16	1-5/16-12	2-1/2	2-1/8	6.10	1.88	4.15	2.85	1.000



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

High Pressure Carbon Steel Ball Valves Series 500HP, 506HP, 507HP

MATERIALS OF CONSTRUCTION	
VALVE BODY:	CARBON STEEL
BALL:	STEEL
SEATS:	DELRIN WITH MOLYBDENUM DISULPHIDE
STEM SEALS:	NITRILE O-RINGS
HANDLE:	STEEL

SPECIFICATIONS	
PRESSURE RANGE:	6,000 PSI
TEMPERATURE RANGES:	-10° TO +210°F
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF." (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)

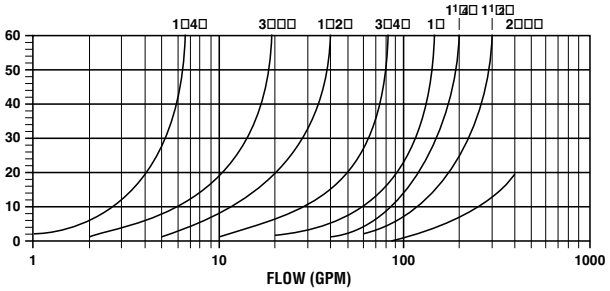
STYLE	TYPE	MATERIAL	SIZE
V	590	HP	-4
STYLE	V-VALVE VP-VALVE, PADLOCKING HANDLE		
TYPE	500-FEMALE/FEMALE NPT PORTS		
MATERIAL	HP-HIGH PRESSURE CARBON STEEL		
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"		

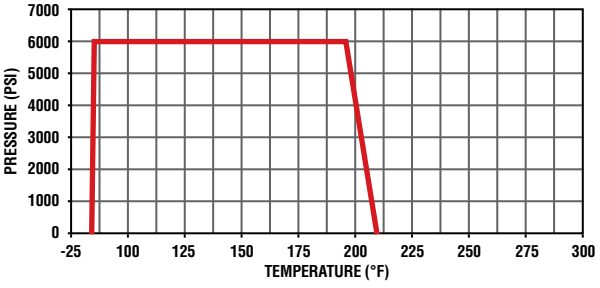
STYLE	TYPE	MATERIAL	SIZE
V	506	HP	-4
STYLE	V-VALVE VP-VALVE, PADLOCKING HANDLE		
TYPE	506-FEMALE/FEMALE SAE STRAIGHT THREAD PORTS		
MATERIAL	HP-HIGH PRESSURE CARBON STEEL		
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1 1/4", 24-1 1/2", 32-2"		

STYLE	TYPE	MATERIAL	SIZE
V	507	HP	-M18
STYLE	V-VALVE		
TYPE	507-FEMALE / FEMALE ISO 6149 PORTS		
MATERIAL	HP-HIGH PRESSURE CARBON STEEL		
SIZE	M18X1.5, M27X2		

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

Pressure Drop (PSI)





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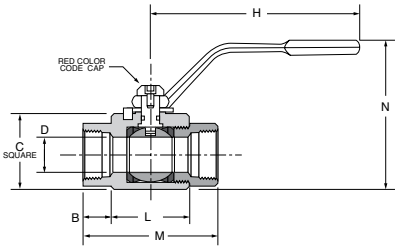
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

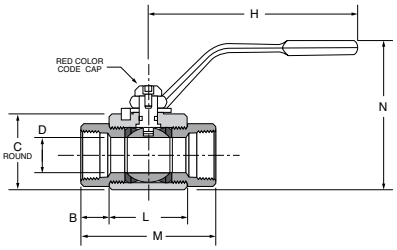
6000 PSI Female-Female Pipe Ends XV500HP-X

PART NO.	PIPE THREAD [NPT]	B	C	H	L	M	N	FLOW DIA. D
XV500HP-4	1/4-18	.69	1.38	4.50	1.44	2.75	2.94	.240
XV500HP-6	3/8-18	.56	1.50	4.50	1.69	2.88	3.06	.390
XV500HP-8	1/2-14	.75	1.63	4.50	1.88	3.38	3.19	.510
XV500HP-12	3/4-14	.69	2.25	7.00	2.41	3.81	4.69	.790
XV500HP-16	1-11.5	.94	2.50	7.00	2.56	4.50	4.94	.950



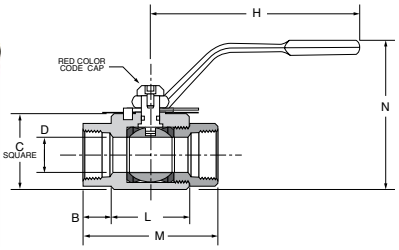
6000 PSI Female-Female Pipe Ends XV500HP-X (LARGE)

PART NO.	PIPE THREAD [NPT]	B	C	H	L	M	N	FLOW DIA. D
XV500HP-20	1 1/4-11.5	.85	3.25	10.00	3.15	4.84	6.31	1.26
XV500HP-24	1 1/2-11.5	.99	3.75	10.00	3.35	5.33	6.76	1.50
XV500HP-32	2-11.5	1.30	4.50	10.00	3.94	6.54	7.42	1.89



6000 PSI Locking-Female-Female Pipe Ends XVP500HP-X

PART NO.	PIPE THREAD [NPT]	B	C	H	L	M	N	FLOW DIA. D
XVP500HP-4	1/4-18	.69	1.38	4.50	1.44	2.75	2.94	.240
XVP500HP-6	3/8-18	.56	1.50	4.50	1.69	2.88	3.06	.390
XVP500HP-8	1/2-14	.75	1.63	4.50	1.88	3.38	3.19	.510
XVP500HP-12	3/4-14	.69	2.25	7.00	2.41	3.81	4.69	.790
XVP500HP-16	1-11.5	.94	2.50	7.00	2.56	4.50	4.94	.950



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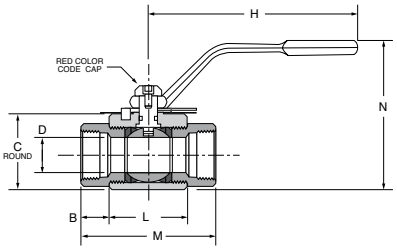
6000 PSI Locking-Female-Female Pipe Ends XVP500HP-X (LARGE)

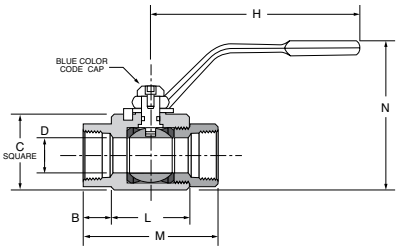
PART NO.	PIPE THREAD [NPT]	B	C	H	L	M	N	FLOW DIA. D
XVP500HP-20	1 1/4-11.5	.85	3.25	10.00	3.15	4.84	6.31	1.26
XVP500HP-24	1 1/2-11.5	.99	3.75	10.00	3.35	5.33	6.76	1.50
XVP500HP-32	2-11.5	1.30	4.50	10.00	3.94	6.54	7.42	1.89



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

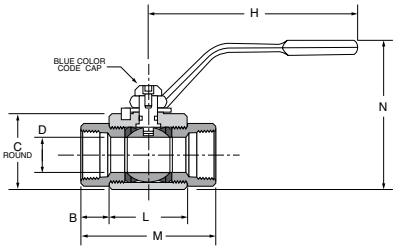
6000 PSI Female-Female Straight Thread Ends XV506HP-X

PART NO.	SAE J1926-1 THREAD	B	C	H	L	M	N	FLOW DIA. D
XV506HP-4	7/16-20 UNF	.69	1.38	4.50	1.44	2.75	2.94	.240
XV506HP-6	9/16-18 UNF	.56	1.50	4.50	1.69	2.88	3.06	.390
XV506HP-8	3/4-16 UNF	.75	1.63	4.50	1.88	3.38	3.19	.510
XV506HP-12	1 1/16-12 UNF	.69	2.25	7.00	2.41	3.81	4.69	.790
XV506HP-16	1 5/16-12 UNF	.94	2.50	7.00	2.56	4.50	4.94	.950



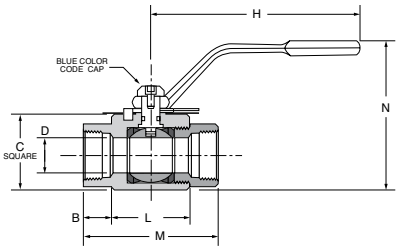
6000 PSI Female-Female Straight Thread Ends XV506HP-X (LARGE)

PART NO.	SAE J1926-1 THREAD	B	C	H	L	M	N	FLOW DIA. D
XV506HP-20	1 5/8-12 UNF	.85	3.25	10.00	3.15	4.84	6.31	1.26
XV506HP-24	1 7/8-12 UNF	.99	3.75	10.00	3.35	5.33	6.76	1.50
XV506HP-32	2 1/2-12 UNF	1.30	4.50	10.00	3.94	6.54	7.42	1.89



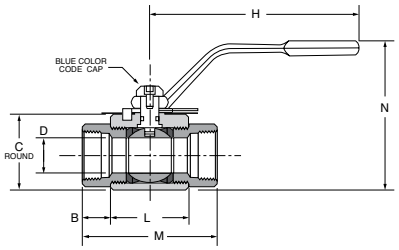
6000 PSI Locking-Female-Female Straight Thread Ends XVP506HP-X

PART NO.	SAE J1926-1 THREAD	B	C	H	L	M	N	FLOW DIA. D
XVP506HP-4	7/16-20 UNF	.69	1.38	4.50	1.44	2.75	2.94	.240
XVP506HP-6	9/16-18 UNF	.56	1.50	4.50	1.69	2.88	3.06	.390
XVP506HP-8	3/4-16 UNF	.75	1.63	4.50	1.88	3.38	3.19	.510
XVP506HP-12	1 1/16-12 UNF	.69	2.25	7.00	2.41	3.81	4.69	.790
XVP506HP-16	1 5/16-12 UNF	.94	2.50	7.00	2.56	4.50	4.94	.950



6000 PSI Locking-Female-Female Straight Thread Ends XVP506HP-X (LARGE)

PART NO.	SAE J1926-1 THREAD	B	C	H	L	M	N	FLOW DIA. D
XVP506HP-20	1 5/8-12 UNF	.85	3.25	10.00	3.15	4.84	6.31	1.26
XVP506HP-24	1 7/8-12 UNF	.99	3.75	10.00	3.35	5.33	6.76	1.50
XVP506HP-32	2 1/2-12 UNF	1.30	4.50	10.00	3.94	6.54	7.42	1.89



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Stainless Steel Ball Valves
Series 501SS

MATERIALS OF CONSTRUCTION	
VALVE BODY:	CF-8M STAINLESS STEEL
BALL:	STAINLESS STEEL
SEATS / SEALS:	PTFE
HANDLE:	STAINLESS STEEL

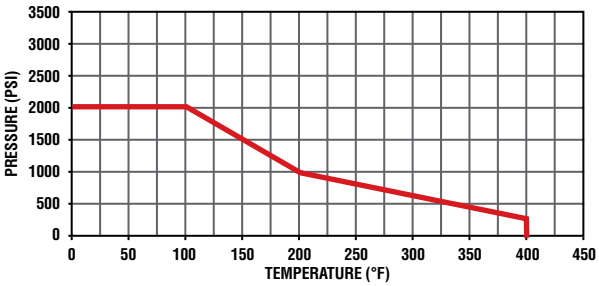
PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	2,000 PSI
VACUUM SERVICE	28 INCHES HG
TEMPERATURE RANGE	0° TO +400°F

STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	501	SS	-4	-00
STYLE	V-VALVE			
TYPE	501-MALE/FEMALE NPT PORTS			
MATERIAL	SS-STAINLESS STEEL			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1"			

APPROVALS
MEETS MATERIAL REQUIREMENTS OF NACE MR-01-75

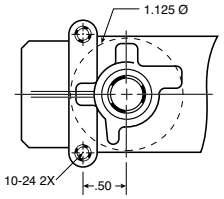
Note: Periodically check the adjustable packing nut and tighten as required.

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.



Applications include chemical plants, refineries, steel mills, industrial fuel lines and agricultural equipment. Meets material requirements of NACE MR-01-75.

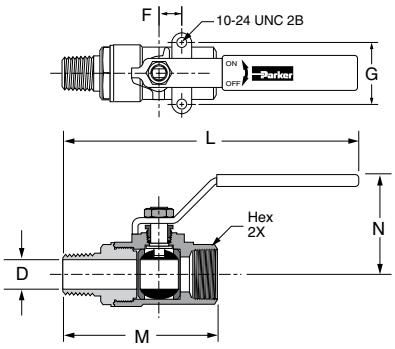
Mounting Detail



Male-Female Pipe Ends XV501SS

PART NO.	PIPE THREAD [NPT]	HEX	F	G	L	M	N	D FLOW Ø
XV501SS-4	1/4	15/16	.50	1.12	5.60	2.65	1.97	.280
XV501SS-6	3/8	15/16	.50	1.12	5.60	2.65	1.97	.375
XV501SS-8	1/2	1-1/16	.50	1.12	5.85	3.05	2.00	.500
XV501SS-12	3/4	1-3/8	.88	1.37	7.27	3.85	2.55	.720
XV501SS-16	1	1-5/8	.88	1.37	7.48	4.25	2.68	.940

FLOW DATA	
VALVE SIZE	CV
1/4	4.0
3/8	6.0
1/2	14.0
3/4	35.0
1	54.0



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Stainless Steel Ball Valves Series 502SS

MATERIALS OF CONSTRUCTION	
VALVE BODY:	CF-8M STAINLESS STEEL
BALL:	STAINLESS STEEL
SEATS / SEALS:	PTFE
HANDLE:	STAINLESS STEEL

PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	2,000 PSI SIZES: 1/4" – 1" 1,500 PSI SIZES: 1-1/4" – 2"
VACUUM SERVICE	28 INCHES HG
TEMPERATURE RANGE	0° TO +400°F

STYLE	TYPE	MATERIAL	SIZE	OPTIONS
V	502	SS	-4	-00
STYLE	V-VALVE VP-VALVE, PADLOCKING HANDLE			
TYPE	502-PANEL MOUNT FEMALE/FEMALE NPT PORTS			
MATERIAL	SS-STAINLESS STEEL			
SIZE	4-1/4", 6-3/8", 8-1/2", 12-3/4", 16-1", 20-1-1/4", 24-1-1/2", 32-2"			
OPTIONS	20-SHORT HANDLE 21-OVAL HANDLE 35-WELDED RETAINER NUT			

APPROVALS
MEETS MATERIAL REQUIREMENTS OF NACE MR-01-75

FLOW DATA	
VALVE SIZE	CV
1/4	4.0
3/8	6.0
1/2	14.0
3/4	35.0
1	54.0
1 1/4	74.0
1 1/2	120.0
2	226.0

MOUNTING HOLE DIAMETER	
VALVE SIZE	DIA. IN.
1/4	1.125
3/8	1.125
1/2	1.125
3/4	1.500
1	1.500
1 1/4	1.875
1 1/2	1.875
2	1.875

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

Applications include chemical plants, refineries, steel mills, industrial fuel lines and agricultural equipment. Meets material requirements of NACE MR-01-75.

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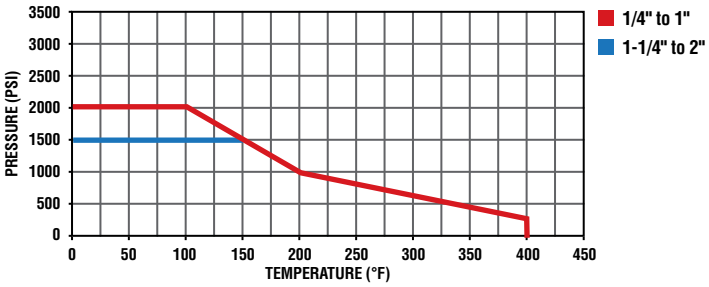
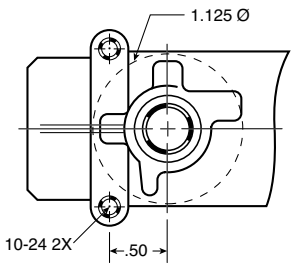


Mounting Detail

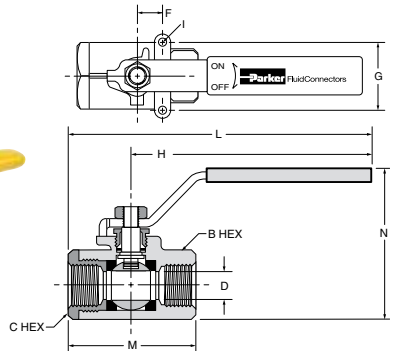


Note: Periodically check the adjustable packing nut and tighten as required.

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

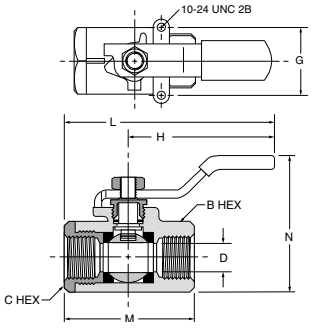
Female Pipe Ends, Panel Mount XV502SS

PART NO.	PIPE THD (NPT)	B/C HEX	F	G	H	I THREAD	L	M	N	PANEL FLOW DIA. D	HOLE DIA.
XV502SS-4	1/4	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
XV502SS-6	3/8	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
XV502SS-8	1/2	1-1/16	.500	1.125	4.00	10-24 UNC	5.13	2.27	2.65	.500	1.125
XV502SS-12	3/4	1-3/8	.875	1.375	5.00	10-24 UNC	6.67	3.35	3.46	.790	1.500
XV502SS-16	1	1-5/8	.875	1.375	5.00	10-24 UNC	6.77	3.54	3.74	1.000	1.500
XV502SS-20	1-1/4	2	1.000	1.500	7.00	1/4-20 UNC	9.00	4.00	4.55	1.250	2.000
XV502SS-24	1-1/2	2-3/8	1.000	1.500	7.00	1/4-20 UNC	7.19	4.38	5.42	1.500	2.000
XV502SS-32	2	3	1.000	1.500	7.00	1/4-20 UNC	9.75	5.50	5.68	2.000	2.000



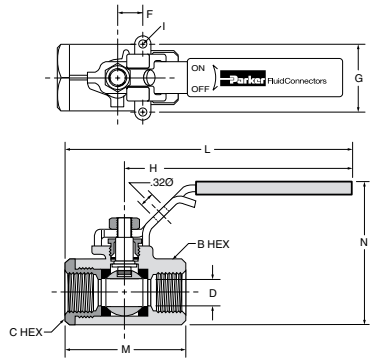
Short Handle, Female Pipe Ends, Panel Mount XV502SS-X-20

PART NO.	PIPE THREAD [NPT]	B/C HEX	G	H	L	M	N	FLOW DIA. D
XV502SS-4-20	1/4	15/16	1.12	2.28	3.32	2.07	2.53	.375
XV502SS-6-20	3/8	15/16	1.12	2.28	3.32	2.07	2.53	.375
XV502SS-8-20	1/2	1-1/16	1.12	2.22	3.37	2.25	2.63	.500



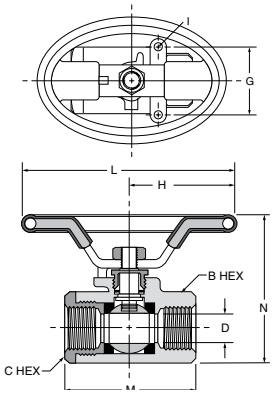
Locking Handle, Female Pipe Ends, Panel Mount XVP502SS

PART NO.	PIPE THD (NPT)	B/C HEX	F	G	H	I THREAD	L	M	N	PANEL FLOW DIA. D	HOLE DIA.
XVP502SS-4	1/4	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
XVP502SS-6	3/8	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
XVP502SS-8	1/2	1-1/16	.500	1.125	4.00	10-24 UNC	5.13	2.27	2.65	.500	1.125
XVP502SS-12	3/4	1-3/8	.875	1.375	5.00	10-24 UNC	6.67	3.35	3.46	.790	1.500
XVP502SS-16	1	1-5/8	.875	1.375	5.00	10-24 UNC	6.77	3.54	3.74	1.000	1.500
XVP502SS-20	1-1/4	2	1.000	1.500	7.00	1/4-20 UNC	9.00	4.00	4.55	1.250	2.000
XVP502SS-24	1-1/2	2-3/8	1.000	1.500	7.00	1/4-20 UNC	7.19	4.38	5.42	1.500	2.000
XVP502SS-32	2	3	1.000	1.500	7.00	1/4-20 UNC	9.75	5.50	5.68	2.000	2.000



Oval Handle, Female Pipe Ends, Panel Mount XV502SS-X-21

PART NO.	PIPE THD (NPT)	B/C HEX	G	H	L	I THREAD	M	N	PANEL FLOW DIA. D	HOLE DIA.
XV502SS-4-21	1/4	15/16	1.125	1.74	3.48	10-24 UNC	2.07	2.43	.380	1.125
XV502SS-6-21	3/8	15/16	1.125	1.74	3.48	10-24 UNC	2.07	2.43	.380	1.125
XV502SS-8-21	1/2	1-1/16	1.125	1.74	3.48	10-24 UNC	2.27	2.54	.500	1.125
XV502SS-12-21	3/4	1-3/8	1.375	2.68	5.36	10-24 UNC	3.35	3.45	.790	1.500
XV502SS-16-21	1	1-5/8	1.375	2.68	5.36	10-24 UNC	3.54	3.74	1.000	1.500
XV502SS-20-21	1-1/4	2	1.500	3.27	6.53	1/4-20 UNC	4.00	4.54	1.250	2.000
XV502SS-24-21	1-1/2	2-3/8	1.500	3.27	6.53	1/4-20 UNC	4.38	4.93	1.500	2.000
XV502SS-32-21	2	3	1.500	3.27	6.53	1/4-20 UNC	5.50	5.67	2.000	2.000



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Rotary Actuator Ball Valves Series ACT

PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	150 PSI maximum air pressure to actuator
TEMPERATURE RANGE	Ambient temperature -40° to +180°F

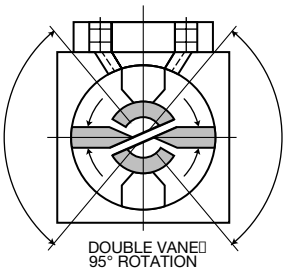
How Do Vane Actuators Work?

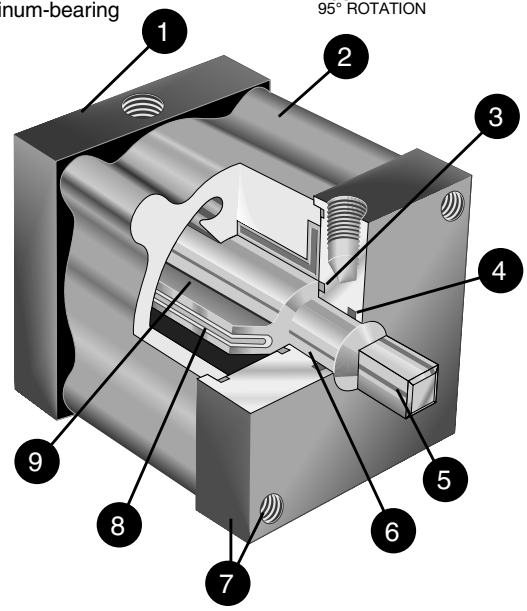
Parker vane actuators provide the maximum amount of output torque from the smallest possible envelope size. They convert fluid power pressure into rotary motion for a wide variety of industrial applications. Double vane units produce twice the torque output of single vane actuators from identical envelope dimensions and have a maximum rotation of 95°.

A short cylindrical chamber encloses a vane attached to a central shaft. Fluid pressure differential is applied through a stationary barrier (stator) within the cylinder to one side of the vane. The opposite side of the vane is connected to exhaust through the stator. This pressure differential produces rotation of the vane and central shaft. Due to vane actuator design there will always be some internal bypass in these units.

Rotary Actuator Series ACT Features

1. **Heads**-are precision machined from aluminum, then hard-coat anodized and PTFE impregnated to ensure long seal life and low breakaway pressure.
2. **Body** - is machined from a one-piece aluminum extrusion that incorporates the stator for superior rigidity. The extrusion is hard-coat anodized and PTFE impregnated, resulting in a smooth, slick seal surface which guarantees long seal life and low breakaway pressure.
3. **Shoulder Seal** - a nitrile-energized, PTFE seal is used to reduce bypass flow and friction, providing superior performance and long life.
4. **Shaft Seal** - the high-quality, self-lubricated, abrasion-resistant nitrile seal is a multiple lobe construction for leakfree operation and greater reliability.
5. **Shaft** - stainless steel provides high strength and corrosion resistance for the most demanding applications.
6. **Bearings** - hard-coat anodized aluminum-bearing surface with permanent solid film lubricant provides substantial shaft support and wear resistance, ensuring continuous lubrication, high performance, and long life.
7. **Mounting** - combination face and base mounting offer flexibility in application and design.
8. **Vane Seal** - a special self-lubricated, abrasion-resistant nitrile compound is molded into a one-piece vane seal, providing low breakaway pressure and long life, even with no lubrication. The vane seal is also removable so that field repairs can be made, if necessary.
9. **Vane** - a hard-coat anodized aluminum extrusion permanently affixed to shaft, forming a structurally sound assembly. The light weight also reduces inertia allowing faster operating speeds.





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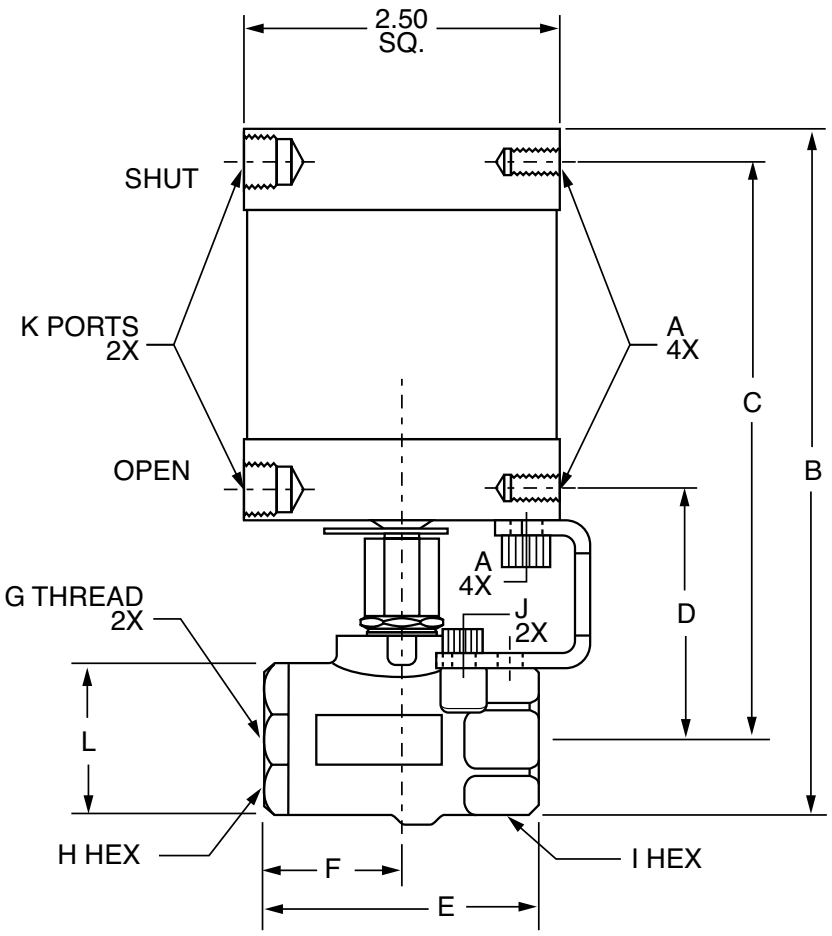
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan



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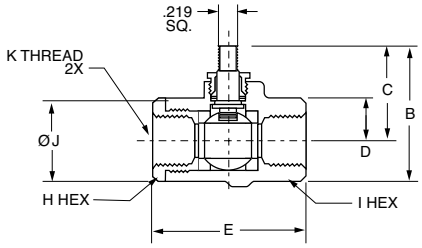
Rotary Actuator, Female Pipe Ends XV502P-X-ACT

PART NO.	SIZE	A MTG. HOLES	B	C	D	E	F	G	H HEX	I HEX	J UNC	K NPTF	L	FLOW DIA.	FLOW CV	MIN. ACT PRESSURE (PSI)
XV502P-4-ACT	1/4	1/4-20 UNC	5.25	4.47	1.91	2.03	1.00	1/4-18PTF	15/16	15/16	10-24	1/8-27	1.06	.375	4.0	50
XV502P-6-ACT	3/8	1/4-20 UNC	5.25	4.47	1.91	2.03	1.00	3/8-18PTF	15/16	15/16	10-24	1/8-27	1.06	.375	5.8	50
XV502P-8-ACT	1/2	1/4-20 UNC	5.38	4.54	1.98	2.20	1.09	1/2-14PTF*	1-1/16	1-1/16	10-24	1/8-27	1.19	.500	12.0	50
XV502P-12-ACT	3/4	1/4-20 UNC	5.57	4.63	2.07	2.42	1.29	3/4-14PTF**	1-5/16	1-1/4	10-24	1/8-27	1.38	.685	25.0	75
XV502P-16-ACT	1	1/4-20 UNC	5.85	4.76	2.20	2.75	1.38	1-11.5PTF**	1-9/16	1-1/2	10-24	1/8-27	1.67	.875	35.0	75

Stainless Steel Rotary Actuator, Female Pipe Ends XV502SS-X-ACT

PART NO.	SIZE	A MTG. HOLES	B	C	D	E	F	G	H / I HEX	J	K NPTF	L	FLOW DIA.	FLOW CV
XV502SS-4-ACT	1/4	1/4-20 UNC	5.41	4.61	2.05	2.07	1.04	1/4-18 NPT	15/16	10-24	1/8-27	1.10	.375	4.0
XV502SS-6-ACT	3/8	1/4-20 UNC	5.41	4.61	2.05	2.07	1.04	3/8-18 NPT	15/16	10-24	1/8-27	1.10	.375	6.0
XV502SS-8-ACT	1/2	1/4-20 UNC	5.53	4.64	2.08	2.27	1.17	1/2-14 NPT	1 1/16	10-24	1/8-27	1.28	.500	14.0

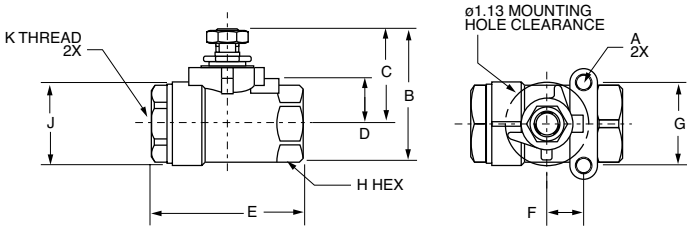
*Ptf Special Short. **Ptf Special Extra Short



Actuator Sub-Assembly XV502P-X-SUB

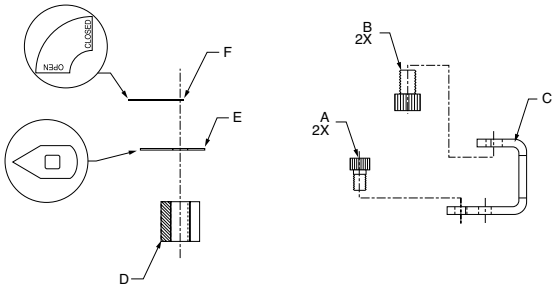
PART . NO	SIZE	A UNC	B	C	D	E	F	G	H HEX	I HEX	J	K
XV502P-4-SUB	1/4	10-24	1.68	1.15	.495	2.03	.50	1.12	15/16	15/16	1.06	1/4-18 PTF
XV502P-6-SUB	3/8	10-24	1.68	1.15	.495	2.03	.50	1.12	15/16	15/16	1.06	3/8-18 PTF
XV502P-8-SUB	1/2	10-24	1.78	1.19	.565	2.20	.50	1.12	1-1/16	1-1/16	1.19	1/2-14 PTF*
XV502P-12-SUB	3/4	10-24	2.09	1.40	.655	2.42	.87	1.37	1-5/16	1-1/4	1.38	3/4-14 PTF**
XV502P-16-SUB	1	10-24	2.38	1.54	.785	2.75	.87	1.37	1-9/16	1-1/2	1.67	1-11.5 PTF**

* PTF Special Short
** PTF Special Extra Short



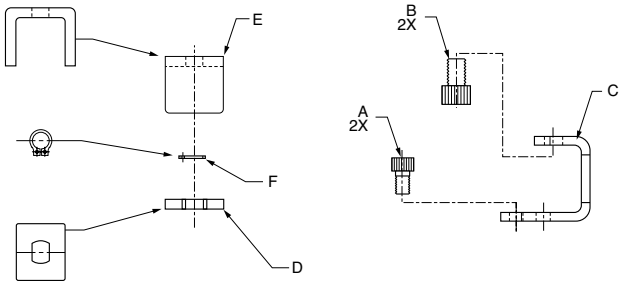
Actuator Sub-Assembly XV502SS-X-SUB

PART . NO	SIZE	A UNC	B	C	D	E	F	G	H HEX	J	K
XV502SS-4-SUB	1/4	10-24	1.88	1.32	.63	2.07	.50	1.12	15/16	1.10	1/4-18 NPT
XV502SS-6-SUB	3/8	10-24	1.88	1.32	.63	2.07	.50	1.12	15/16	1.10	3/8-18 NPT
XV502SS-8-SUB	1/2	10-24	2.00	1.35	.66	2.27	.50	1.12	1-1/16	1.28	1/2-14 NPT



ACT-P-X-KIT

PART NO.	FOR USE WITH	A	B	C	D	E	F
ACT-P-1-KIT	XV502P-4, 6, 8-ACT	10-24 UNC	1/4-20 UNC	BRACKET	.60 LONG COUPLING	POSITION INDICATOR	POSITION LABEL
ACT-P-2-KIT	XV502P-12, 16-ACT	10-24 UNC	1/4-20 UNC	BRACKET	.55 LONG COUPLING	POSITION INDICATOR	POSITION LABEL



ACT-SS-X-KIT

PART NO.	FOR USE WITH	A	B	C	D	E	F
ACT-SS-1-KIT	XV502SS-4, 6, 8-ACT	10-24 UNC	1/4-20 UNC	BRACKET	CLIP	HANDLE YOKE	SNAP RING

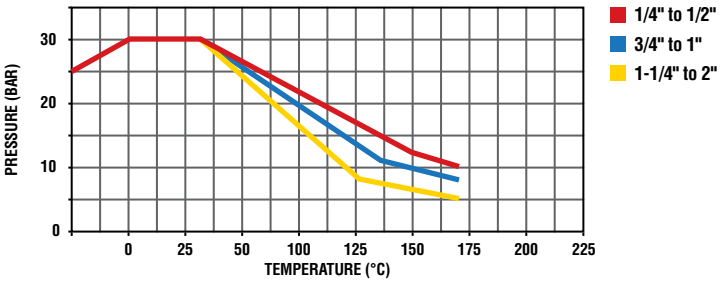
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Parker Metric Ball Valve Series BVGC

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS NICKEL PLATED TO DIN 17660 AND UNI 5705
BALL:	BRASS CHROME PLATED
SEATS / SEALS:	PTFE WITH SILICONE FREE LUBRICANT
PACKING GLAND:	PTFE
HANDLE:	LEVER – CARBON STEEL COMPACT – ALUMINUM

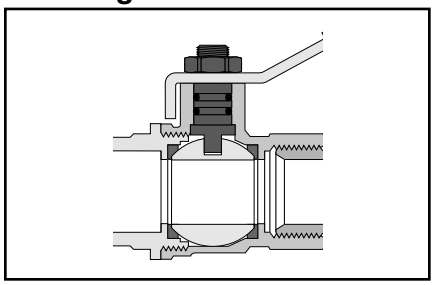
SPECIFICATIONS
FEMALE BSPP SHORT THREADS MANUFACTURED IN ACCORDANCE TO ISO 228 / DIN 259

Operating pressures and temperatures



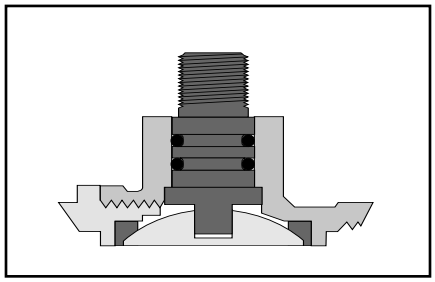
N.B. This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

Advantages



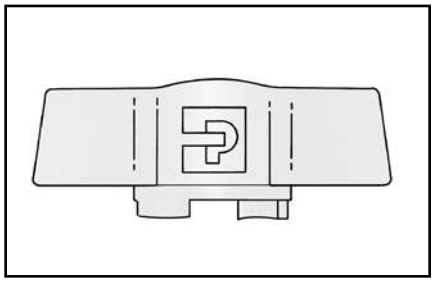
Adjustable packing

The PTFE packing gland and adjustable washer are designed to give longer service life and lower operating torques.



Anti extrusion stem

The BVGC series ball valves are fitted with an anti-extrusion stem to prevent blow out in the case of pressure peaks.



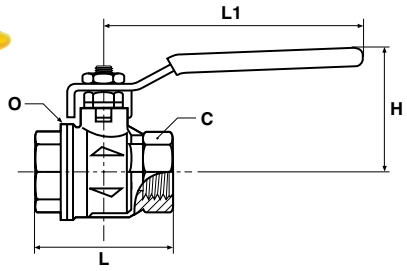
Compact handle

For applications where space is at a premium, the BVGC series valve is available with a compact handle in sizes up to 1".

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

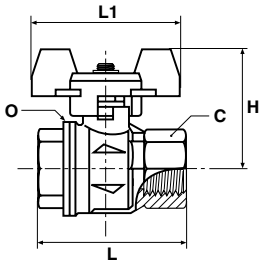
BVGC BSPP Female/Female Valve With Lever Handle

PART NO.	DN MM	THREAD BSPP	C	H	L	L1	O
BVG4-1/4C	8	1/4	20	39.5	39	82	25.0
BVG4-3/8C	10	3/8	20	39.5	39	82	25.0
BVG4-1/2C	15	1/2	25	44.0	50	100	32.5
BVG4-3/4C	20	3/4	31	50.0	54	120	39.0
BVG4-1C	25	1	38	54.0	67	120	47.5
BVG4-1.1/4C	32	1.1/4	48	76.5	77	158	59.0
BVG4-1.1/2C	40	1.1/2	54	82.5	90	158	71.5
BVG4-2C	50	2	66	89.5	106	158	86.0



BVGTC BSPP Female/Female Valve with Compact Handle

PART NO.	DN MM	THREAD BSPP	C	H	L	L1	O
BVGT4-1/4C	8	1/4	20	40	39	50	25.0
BVGT4-3/8C	10	3/8	20	40	39	50	25.0
BVGT4-1/2C	15	1/2	25	44	50	50	32.5
BVGT4-3/4C	20	3/4	31	49	54	60	39.0
BVGT4-1C	25	1	38	53	67	60	47.5



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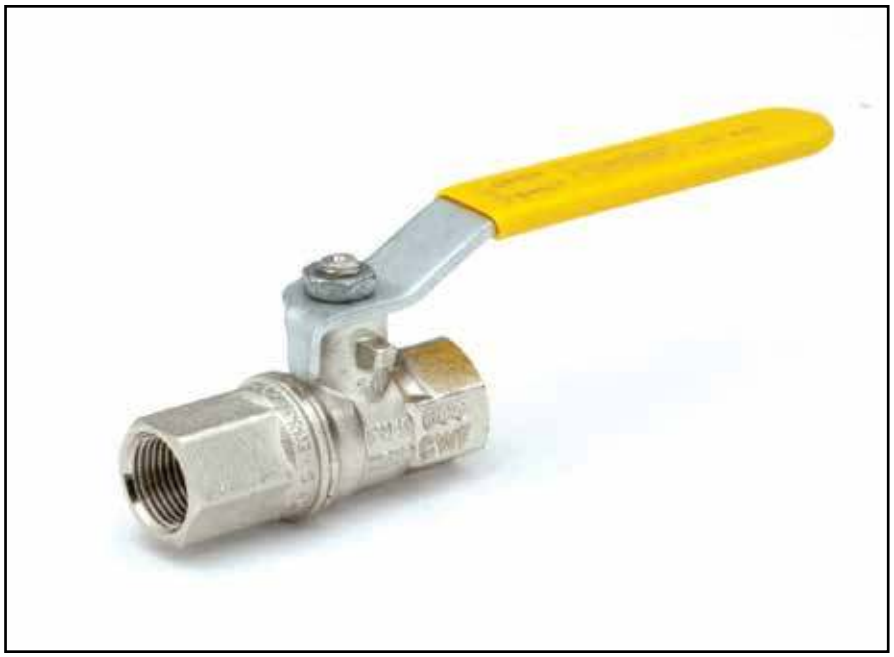
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

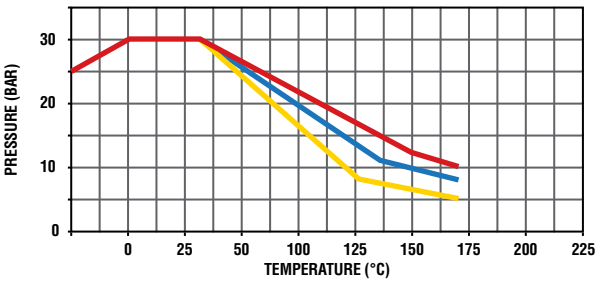
Parker Metric Ball Valve Series BVGL

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS NICKEL PLATED TO DIN 17660 AND UNI 5705
BALL:	BRASS CHROME PLATED
SEATS / SEALS:	PTFE WITH SILICONE FREE LUBRICANT
STEM SEAL:	FLUOROCARBON O-RINGS
HANDLE:	LEVER – CARBON STEEL COMPACT – ALUMINUM

SPECIFICATIONS
FEMALE THREADS MANUFACTURED IN ACCORDANCE TO DIN 2999/ISO 228.



Operating pressures and temperatures



N.B. This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

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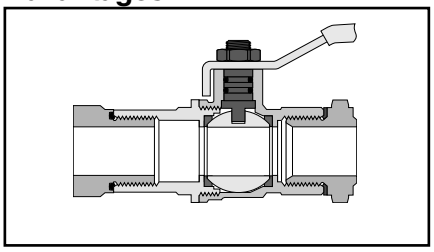
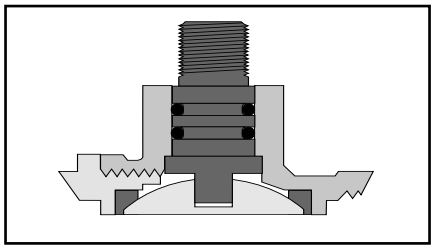
Advantages



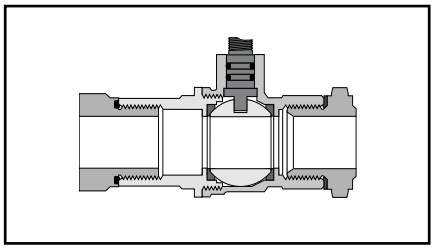
Long female threads

BVGL series valves are manufactured with long female threads in accordance to DIN 2999/ISO 228. This enables the valves to be used with Prestolok, Metru-Lok and brass adaptors but also Parker's range of steel hydraulic fittings, e.g. Triple-Lok, O-Lok, EO, and BSPP coned adaptors.



Anti extrusion stem

The BVGL series ball valves are fitted with an anti extrusion stem to prevent blow out in the case of pressure peaks. The stem is sealed with two Fluorocarbon O-rings for maximum safety and performance.



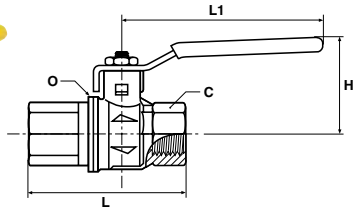
Full flow

All BVGL series valves are full-flow. This limits the turbulence created by the passage of fluid across the valve, minimizing pressure drop.

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

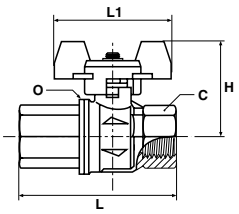
BVGL BSPP Female/Female Valve with Lever Handle

PART NO.	DN MM	THREAD BSPP	C	H	L	L1	O
BVG4-1/4L	8	1/4	20	38	50	82	25.0
BVG4-3/8L	10	3/8	20	38	60	82	25.0
BVG4-1/2L	15	1/2	25	43	75	100	32.5
BVG4-3/4L	20	3/4	32	50	80	120	39.0
BVG4-1L	25	1	41	54	90	120	47.5
BVG4-1.1/4L	32	1 1/4	50	73	110	158	59.0
BVG4-1.1/2L	40	1 1/2	55	79	120	158	71.5
BVG4-2L	50	2	70	86	140	158	86.0



BVGTL BSPP Female/Female Valve with Compact Handle

PART NO.	DN MM	THREAD BSPP	C	H	L	L1	O
BVGT4-1/4L	8	1/4	20	39	50	50	25.0
BVGT4-3/8L	10	3/8	20	39	60	50	25.0
BVGT4-1/2L	15	1/2	25	43	75	50	32.5
BVGT4-3/4L	20	3/4	32	47	80	60	39.0
BVGT4-1L	25	1	41	51	90	60	47.5



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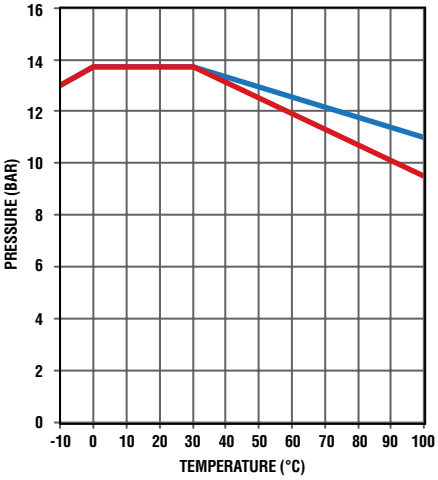
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Parker Metric Ball Valve Series BVGLOCK

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS NICKEL PLATED TO DIN 17660 AND UNI 5705
BALL:	BRASS CHROME PLATED
SEATS / SEALS:	PTFE WITH SILICONE FREE LUBRICANT
PACKING GLAND:	PTFE
HANDLE:	CARBON STEEL

SPECIFICATIONS
MEETS THE REQUIREMENTS OF EUROPEAN DIRECTIVE DI 89/392/CEE RELATING TO THE ISOLATION OF POWER SUPPLY AND TO MEET THE HEALTH AND SAFETY REQUIREMENTS FOR MACHINES AND MATERIALS IN PARAGRAPHS L233-5 OF THE CODE DU TRAVAIL.

Operating pressures and temperatures



1/4" to 1/2"
3/4" to 2"

N.B. This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

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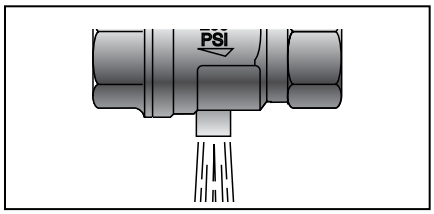
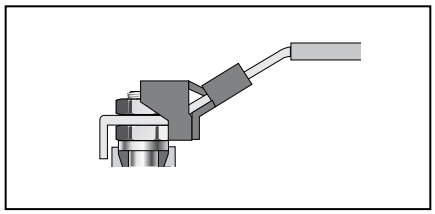
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Advantages



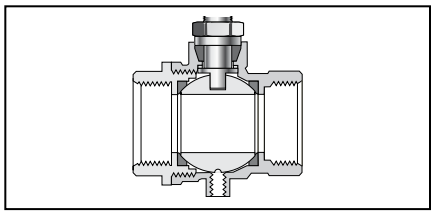
Threaded Exhaust

BVGPLOCK series ball valves are manufactured with an exhaust port, this safety feature enables the downstream air pressure to be vented when the valve is closed. 1/4-1" have M5 thread. 1.1/4 and larger are not threaded.



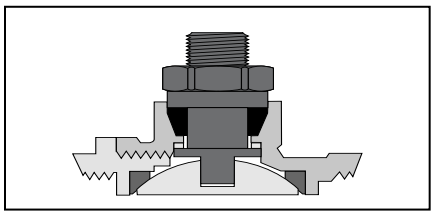
Lockable Handle

The BVGPLOCK series ball valves are fitted with a handle that can be locked in the closed position with a padlock. This safety feature ensures the valve cannot be accidentally opened, and only authorized personnel can operate the valve. Sizes 1.1/4 and larger can be locked in both the open and closed positions.



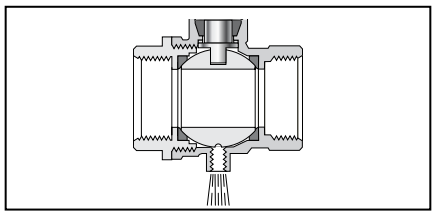
DIN 2999 / ISO 228 Female Threads

BVGPLOCK series valves are manufactured with long female threads in accordance to DIN2999/ISO228. This enables the valves to be used with Prestolok, Metrulok and brass adaptors but also Parker's range of steel hydraulic fittings and EO-fittings form "A" or "C" to DIN 3852.



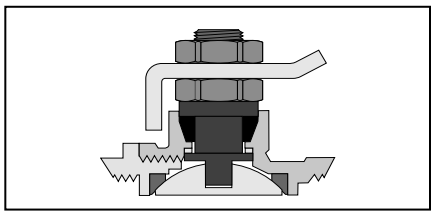
Anti Extrusion Stem

The BVGPLOCK series ball valves are fitted with an anti-extrusion stem to prevent blow out in the case of pressure peaks.



Full Flow

All BVGPLOCK series valves are full-flow. This limits the turbulence created by the passage of fluid across the valve, minimizing pressure drop.

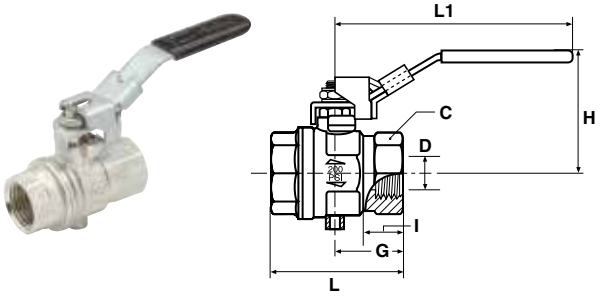


Adjustable Packing

The PTFE packing gland and adjustable washer are designed to give longer service like and lower operating torques.

BVG4PLOCK BSPP Female/Female, Vented, Locking Handle

PART NO.	D FLOW Ø	THREAD BSPP	C	G	H	I	L	L1
BVG4P-1/4 LOCK	8.0	1/4	20	22.5	47.5	12.0	45	96
BVG4P-3/8 LOCK	9.5	3/8	20	22.5	47.5	12.0	45	96
BVG4P-1/2 LOCK	15.0	1/2	25	29.5	52.0	15.5	59	96
BVG4P-3/4 LOCK	19.0	3/4	31	32.0	59.5	17.0	64	117
BVG4P-1 LOCK	24.0	1	40	40.5	63.5	21.0	81	117
BVG4P-1.1/4LOCK	32.0	1-1/4	49	46.5	76.5	23.0	93	158
BVG4P-1.1/2LOCK	40.0	1-1/2	54	51.0	82.5	23.0	102	158
BVG4P-2LOCK	50.0	2	69	60.5	89.5	26.5	121	158



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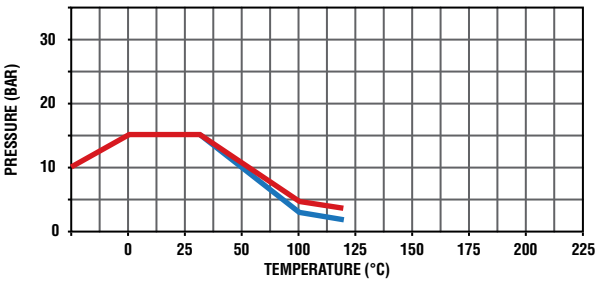
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Parker Metric Ball Valve Series MBVG

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS CHROMIUM PLATED
BALL:	BRASS CHROME PLATED
SEATS/SEALS:	PTFE
STEM SEAL:	FLUOROCARBON
HANDLE:	POLYAMIDE

Operating pressures and temperatures



N.B. This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

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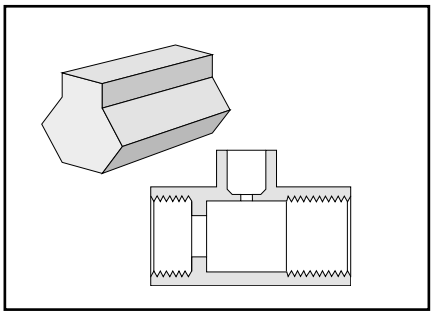
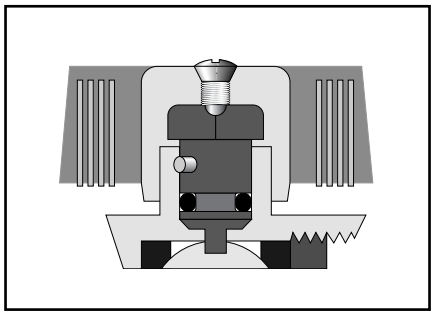
Advantages



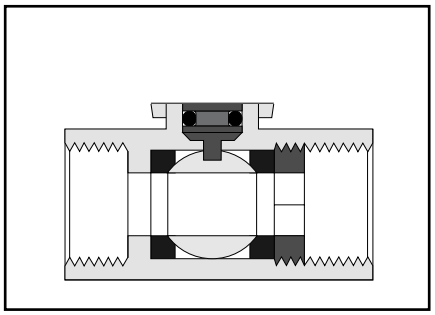
Design of the body

The valve is manufactured from a solid section which incorporates the stem housing in the body. This design allows excellent guidance of the stem, which increases its lifespan.



Stem tightness

A Fluorocarbon O-Ring assembled under compression automatically compensates for minute friction wear. Thus a high standard of seal is attained.



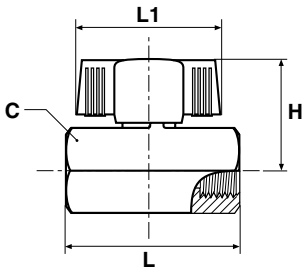
Tightness of the seals

The perfect tightness of the seals on the casing is obtained by the preset force of the nut, adjusted during assembly.

Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

MBVG BSPP Female/Female Valve

PART NO.	DN MM	THREAD BSPP	C	H	L	L1
MBVG4-1/4	8	1/4	21	31.5	41.5	39
MBVG4-3/8	8	3/8	21	31.5	41.5	39
MBVG4-1/2	10	1/2	25	33.5	48.0	39



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Micro Ball Valves
Series 708/709

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS
BALL:	BRASS CHROME PLATED
SEATS/SEALS:	PTFE
STEM SEAL:	NITRILE
HANDLE:	CHROME PLATED STEEL

SPECIFICATIONS	
PRESSURE RANGE	UP TO 500 PSI VACUUM SERVICE TO 29" OF HG
TEMPERATURE RANGE	-35° TO +300°F
OPERATING INSTRUCTIONS	Quarter turn is "ON" or "OFF". (Provides positive stop action for full shutoff.)

STYLE	TYPE	SIZE
MV	**708 / 709**	**-2, -4**
STYLE	MV-MICRO VALVE	
TYPE	708 - MALE / FEMALE 709 - FEMALE / FEMALE	
SIZE	4-1/4"	

FLOW DATA		
VALVE SIZE	MV708 CV	MV709 CV
1/4	.95	.95

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and / or inability to turn the valve handle.

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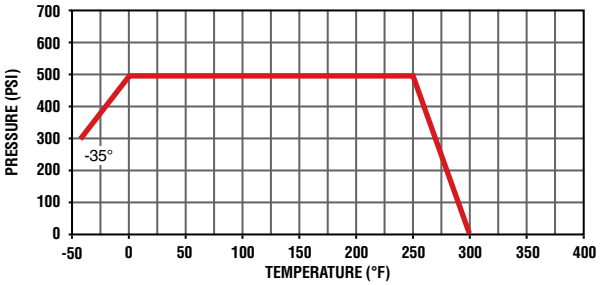
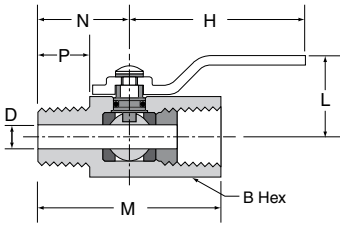


Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

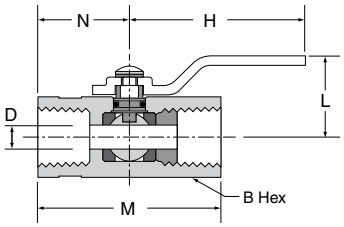
Male-Female Pipe Ends, Mini Ball Valve MV708

PART NO.	PIPE THREAD	B HEX	H	L	M	N	P	FLOW DIA. D
MV708-2	1/8	9/16	1.18	.63	1.62	.93	.38	.180
MV708-4	1/4	11/16	1.52	.70	1.57	.79	.50	.210



Female Pipe Ends, Mini Ball Valve MV709

PART NO.	PIPE THREAD	B HEX	H	L	M	N	FLOW DIA. D
MV709-2	1/8	9/16	1.18	.63	1.52	.68	.180
MV709-4	1/4	11/16	1.52	.70	1.57	.76	.210



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Replacement Handles

	VALVE	PLATED STEEL LEVER W/COVER	S.S. LEVER (NO COVER)	S.S. LEVER W/COVER	TEE (NO COVER)	OVAL (W/COVER)	SHORT LEVER (NO COVER)	PLATED STEEL LKG. LEVER W/COVER	S.S. LOCKING LEVER W/COVER
XV500P (501, 502, 506, 510, 590, 591)	-4	2560-10082	2566-00105		2566-00147	2566-00215	2566-00231	2560-10080	2560-10081
	-6	2560-10082	2566-00105		2566-00147	2566-00215	2566-00231	2560-10080	2560-10081
	-8	2560-10082	2566-00105		2566-00147	2566-00215	2566-00231	2560-10080	2560-10081
	-10	2560-10097	2566-00178		2566-00179			2566-10100	
	-12	2560-10097	2566-00178		2566-00179	2566-00180	—	2560-10100	2560-10101
	-16	2560-10097	2566-00178		2566-00179	2566-00180	—	2560-10100	2560-10101
	-20	2566-00143	2566-00153		2566-00281	—	2566-00142	2566-00135	—
	-24	2566-00143	2566-00153		2566-00281	—	2566-00142	2566-00135	—
	-32	2566-00143	2566-00153		2566-00281	—	2566-00142	2566-00135	—
XV501SS & XV502SS	-4	—		2566-00132	—	2566-00108	2566-00146	—	2566-00138
	-6	—		2566-00132	—	2566-00108	2566-00146	—	2566-00138
	-8	—		2566-00132	—	2566-00108	2566-00146	—	2566-00138
	-12	—		2566-00133	—	2566-00109	—	—	2566-00184
	-16	—		2566-00133	—	2566-00109	—	—	2566-00184
XV502SS	-20	—		2566-00134	—	2566-00110	—	—	2566-00185
	-24	—		2566-00134	—	2566-00110	—	—	2566-00185
	-32	—		2566-00134	—	2566-00110	—	—	2566-00185
XV500CS & XV502CS	-4	2566-00158			2566-00170	2566-00166		2566-00162	
	-6	2566-00158			2566-00170	2566-00166		2566-00162	
	-8	2566-00158			2566-00171	2566-00166		2566-00162	
	-12	2566-00159			2566-00172	2566-00167		2566-00163	
	-16	2566-00159			2566-00172	2566-00167		2566-00163	
	-20	2566-00160				2566-00168		2566-00164	
	-24	2566-00160				2566-00168		2566-00164	
	-32	2566-00161				2566-00169		2566-00165	
XV506CS	-4	2566-00158			2566-00170	2566-00166		2566-00162	
	-6	2566-00158			2566-00170	2566-00166		2566-00162	
	-8							2566-00234	
	-12	—						2566-00235	
	-16	—						2566-00236	
XV533P	-4	2560-10152	2566-00105		2566-00147	2566-00215	2566-00231	2560-10160	
	-6	2560-10152	2566-00105		2566-00147	2566-00215	2566-00231	2560-10160	
	-8	2560-10152	2566-00105		2566-00147	2566-00215	2566-00231	2560-10160	
	-12	2560-10153	2566-00178		2566-00179	2566-00180		2560-10168	
	-16	2560-10153	2566-00178		2566-00179	2566-00180		2560-10168	
XV520P	-4				2566-00277			2566-00262	
	-6				2566-00277			2566-00262	
	-8				2566-00277			2566-00262	
	-12				2566-00280			2566-00261	
	-16				2566-00280			2566-00261	
	-20	2566-00143	2566-00153		2566-00281			2566-00135	
	-24	2566-00143	2566-00153		2566-00281			2566-00135	
	-32	2566-00143	2566-00153		2566-00281			2566-00135	
	40	2566-00253							
	48	2566-00253							
XV500HP, XV506HP, XV507HP	-4							BVHPLK-1[A]	
	-6							BVHPLK-1[A]	
	-8							BVHPLK-1[A]	
	-12							BVHPLK-2[A]	
	-16							BVHPLK-2[A]	
	-20							BVHPLK-3[A]	
	-24							BVHPLK-3[A]	
	-32							BVHPLK-3[A]	

[A] Locking kit for use with standard handles

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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Replacement Handle Nuts

VALVE	PLATED STEEL	STAINLESS STEEL
XV500P-4	2567-00020	2567-00023
XV500P-6	2567-00020	2567-00023
XV500P-8	2567-00020	2567-00023
XV500P-12	2567-00055	2567-00057
XV500P-16	2567-00055	2567-00057
XV500P-20	2567-00051	2567-00052
XV500P-24	2567-00051	2567-00052
XV500P-32	2567-00051	2567-00052

Replacement Handle Covers

VALVE	LEVER	SHORT LEVER	TEE
XV500P-4	2569-00108	2569-00342	2569-00155
XV500P-6	2569-00108	2569-00342	2569-00155
XV500P-8	2569-00108	2569-00342	2569-00155
XV500P-12	2569-00296		2569-00155
XV500P-16	2569-00296		2569-00155
XV500P-20	2569-00229	2569-00234	
XV500P-24	2569-00229	2569-00234	
XV500P-32	2569-00229	2569-00234	
XV502SS-4		2569-00203	
XV502SS-6		2569-00203	
XV502SS-8		2569-00203	

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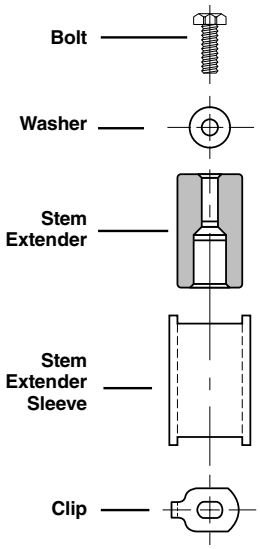
STX	Stem Extension Kit
P	For use on Brass Ball Valves
1	1: 1/4" thru 1/2" valves 2: 3/4" thru 1" valves
125	125: 1-1/4" extension length 225: 2-1/4" extension length

STX	Stem Extension Kit
SS	For use on Stainless Steel Ball Valves
1	1: 1/4" thru 1/2" valves 2: 3/4" thru 1" valves 3: 1-1/4"-2" valves
125	125: 1-1/4" extension length 225: 2-1/4" extension length

All stem extension kit componentry is made from high quality, corrosion resistant stainless steel

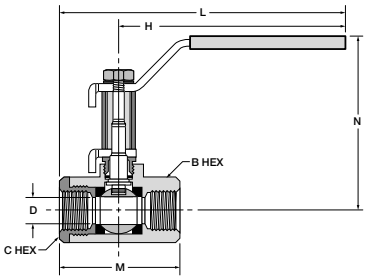
Note: Stem extensions cannot be used with series 509 and series 520.



Brass Valve Extension Dimensions STX-P-1-125

PART NO.	VALVE SIZE	B HEX	C HEX	H	L	M	N	D FLOW Ø
STX-P-1-125	1/4	15/16	15/16	3.96	4.96	2.03	3.73	.375
STX-P-1-125	3/8	15/16	15/16	3.96	4.96	2.03	3.73	.375
STX-P-1-125	1/2	1-1/16	1-1/16	3.96	5.05	2.20	3.84	.500
STX-P-2-125	3/4	1-1/4	1-5/16	3.96	5.25	2.42	4.06	.685
STX-P-2-125	1	1-1/2	1-9/16	3.96	5.89	2.75	4.33	.875

Note: Drawing shows STX-P assembled to XV500P series-not included



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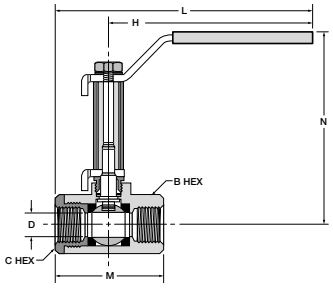
Brass Valve Extension Dimensions STX-P-1-225

PART NO.	VALVE SIZE	B HEX	C HEX	H	L	M	N	D FLOW Ø
STX-P-1-225	1/4	15/16	15/16	3.96	4.96	2.03	4.73	.375
STX-P-1-225	3/8	15/16	15/16	3.96	4.96	2.03	4.73	.375
STX-P-1-225	1/2	1-1/16	1-1/16	3.96	5.05	2.20	4.84	.500
STX-P-2-225	3/4	1-1/4	1-5/16	3.96	5.25	2.42	5.06	.685
STX-P-2-225	1	1-1/2	1-9/16	3.96	5.89	2.75	5.33	.875

Note: Drawing shows STX-P assembled to XV500P series-not included



Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Mini Ball Valves
Series 200/608/609

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS CHROME PLATED
BALL:	BRASS CHROME PLATED
SEATS/SEALS:	PTFE
STEM SEAL:	FLUOROCARBON
HANDLE:	608/609 – POLYAMIDE WEDGE 200 – POLYAMIDE LEVER

MV200 PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	200 PSI
TEMPERATURE RANGE	0° TO +200°F

MV 608/609 PRESSURE AND TEMPERATURE RANGE	
PRESSURE RANGE	450 PSI
TEMPERATURE RANGE	0° TO +200°F

STYLE	TYPE	SIZE
MV	608 / 609	-2
STYLE	MV-MINI VALVE	
TYPE	608 - MALE / FEMALE 609 - FEMALE / FEMALE	
HANDLE COLOR	MV200 FEATURES A BLACK LEVER HANDLE MV608/MV609 FEATURES-YELLOW WEDGE HANDLES	
SIZE	2-1/8", 4-1/4", 6-3/8", 8-1/2"	

STYLE	TYPE	SIZE
MV	200	-2
STYLE	MV-MINI VALVE	
TYPE	200 - FEMALE / FEMALE LEVER HANDLE	
SIZE	2-1/8", 4-1/4", 6-3/8", 8-1/2"	

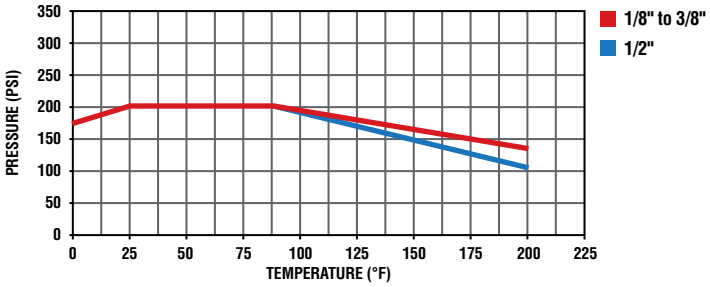
FLOW DATA			
VALVE SIZE	MV200 CV	MV608 CV	MV609 CV
1/8	1.3	1.2	1.4
1/4	4.0	5.8	4.3
3/8	3.7	3.9	3.6
1/2	5.8	5.6	6.0

SPECIFICATIONS	
OPERATING INSTRUCTIONS	QUARTER TURN IS "ON" OR "OFF". (PROVIDES POSITIVE STOP ACTION FOR FULL SHUTOFF.)

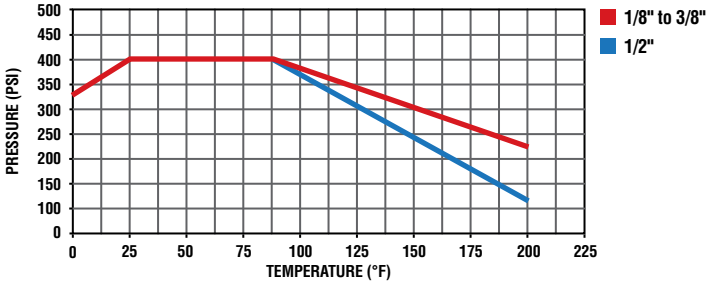
Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use on water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.

MV200 Pressure and Temperature



MV608/609 Pressure and Temperature



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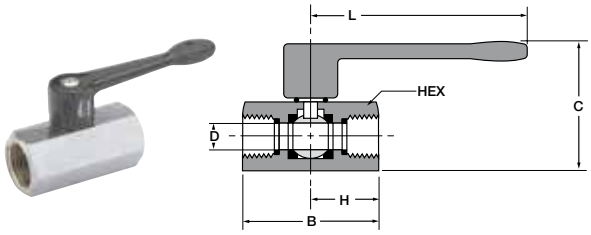
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

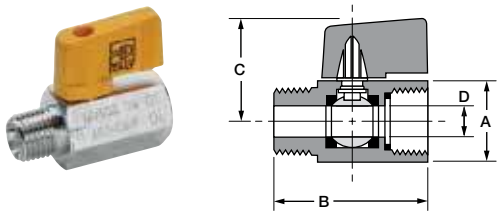
Female Pipe Ends, Lever Handle, Mini Ball Valve MV200

PART NO.	PIPE THREAD	HEX	B	C	H	L	FLOW DIA.D
MV200-2	1/8	.83	1.71	1.20	.91	2.83	.31
MV200-4	1/4	.83	1.71	1.20	.91	2.83	.31
MV200-6	3/8	.83	1.71	1.20	.91	2.83	.31
MV200-8	1/2	.98	2.11	1.28	1.10	2.83	.39



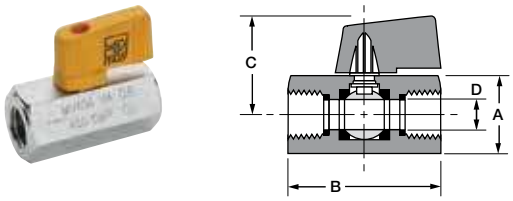
Male-Female Pipe Ends, Compact Handle, Mini Ball Valve MV608

PART NO.	PIPE THREAD	A HEX	B	C	FLOW DIA.D
MV608-2	1/8	.83	1.72	1.22	.20
MV608-4	1/4	.83	1.72	1.22	.31
MV608-6	3/8	.83	1.72	1.22	.31
MV608-8	1/2	.98	2.11	1.30	.39



Female Pipe Ends, Compact Handle, Mini Ball Valve MV609

PART NO.	PIPE THREAD	A HEX	B	C	FLOW DIA.D
MV609-2	1/8	.83	1.71	1.22	.24
MV609-4	1/4	.83	1.71	1.22	.31
MV609-6	3/8	.83	1.71	1.22	.31
MV609-8	1/2	.98	2.11	1.30	.39
MV609-6-4	3/8X1/4	.83	1.71	1.22	.31



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Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

Plug Valves Series PV

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS
VALVE STEM:	ACETAL

NOMENCLATURE	
EXAMPLE: PV607-2-OPTIONS	**ATTRIBUTE:**
PV	PLUG VALVE
607	MALE TO MALE
2	1/8" MALE
N (NOT SHOWN)	NEOPRENE (BROWN)
V (NOT SHOWN)	FLOROCARBON (RED)

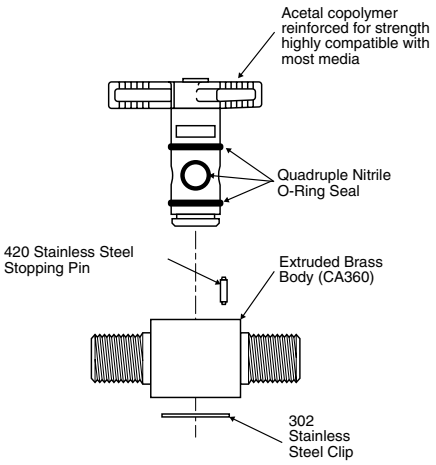
SPECIFICATIONS	
PRESSURE RANGE	UP TO 250 PSI
TEMPERATURE RANGE	-40° TO +175°F

Compact design features internal nitrile seats and a one-piece extruded brass body, offering compatibility with a wide range of media. The one-piece stem/handle combination is constructed of glass reinforced acetal copolymer. All plug valves are 100% leak tested and are certified to be leak free to one SCCM.

Installation Instructions

To assure sealability and reliable performance, the valve must be installed so that the flow media travels in the direction of the arrow on the valve handle.

Valve Components



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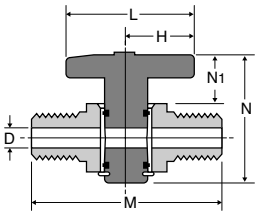
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

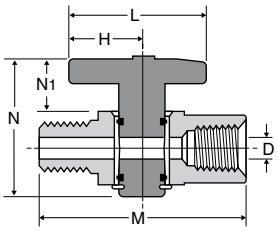
Male Pipe to Male Pipe Plug Valve PV607

PART NO.	PIPE THREAD	H	L	M	N	N1	FLOW DIA. D
PV607-2	1/8	.67	1.34	1.66	1.38	.51	.200
PV607-4	1/4	.67	1.34	2.02	1.38	.51	.200



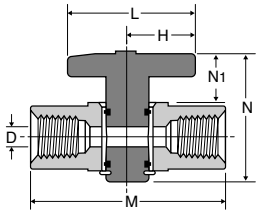
Female Pipe to Male Pipe Plug Valve PV608

PART NO.	PIPE THREAD	H	L	M	N	N1	FLOW DIA. D
PV608-2	1/8	.67	1.34	1.67	1.38	.51	.200
PV608-4	1/4	.67	1.34	2.06	1.38	.51	.200



Female Pipe to Female Pipe Plug Valve PV609

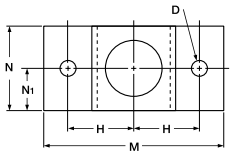
PART NO.	PIPE THREAD	H	L	M	N	N1	FLOW DIA. D
PV609-2	1/8	.67	1.34	1.68	1.38	.51	.200
PV609-4	1/4	.67	1.34	2.10	1.38	.51	.200



Mounting Bracket PVMB-001

PART NO.	H	M	N	N1	D
PVMB-001	.68	1.86	.90	.45	.135

Note: 1" diameter hole required in panel when using mounting bracket



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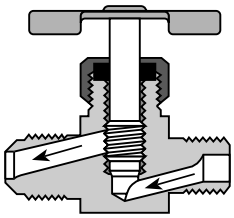
Needle Valves

MATERIALS OF CONSTRUCTION	
VALVE BODY:	BRASS
STEM:	BRASS

NEEDLE VALVE NOMENCLATURE	
EXAMPLE: NV101F-4-2	**ATTRIBUTE:**
NV	NEEDLE VALVE
101	ANGLE NEEDLE VALVE
F	FLARED TO MALE PIPE
4	1/4" TUBE O.D.
2	1/8" PIPE THREAD

SPECIFICATIONS	
PRESSURE RANGE	VALVES UP TO 150 PSI UNLESS OTHERWISE NOTED
TEMPERATURE RANGE	SEE SPECIFIC PART NUMBER FOR TEMPERATURE RANGE

Needle valves have metal-to-metal seats with fine thread screwdown. Brass construction with specially formulated low temperature seal which remains elastic to temperature as low -40°F.



Needle Valves Installation Instructions

Series NV valves should always be installed with the pressure against the seat. Refer to drawing to determine correct direction of flow.

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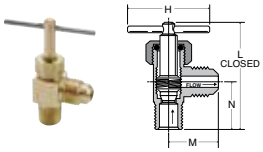
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

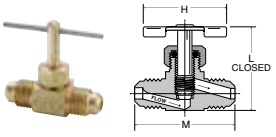
Angle Needle Valve NV101F



Flare to Male Pipe
Temperature Range: -45° to +250° F

PART NO.	TUBE SIZE	PIPE THREAD	H	L	M	N
NV101F-4-2	1/4	1/8	1.50	1.58	.75	.66
NV101F-6-4	3/8	1/4	1.38	1.86	.95	.90

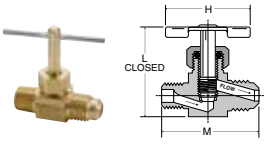
Needle Valve NV102F



Flare to Flare *Provided with Pin Handle
Temperature Range: -45° to +250° F

PART NO.	TUBE SIZE	H	L	M
NV102F-4*	1/4	1.50	1.34	1.50
NV102F-6	3/8	1.38	1.55	1.86

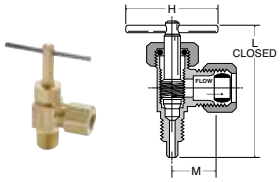
Needle Valve NV103F



Flare to Male Pipe *Provided with Pin Handle
Temperature Range: -45° to +250° F

PART NO.	TUBE SIZE	PIPE THREAD	H	L	M
NV103F-4-2*	1/4	1/8	1.50	1.33	1.35
NV103F-6-4	3/8	1/4	1.38	1.56	1.73

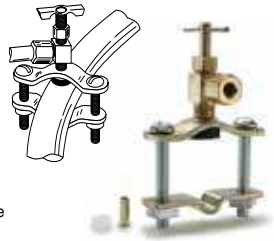
Humidifier Valve HV104C



Temperature Range: -45° to +250° F

PART NO.	TUBE SIZE	PIPE THREAD	H	L	M
HV104C-4-2	1/4	1/8	1.50	1.89	.53

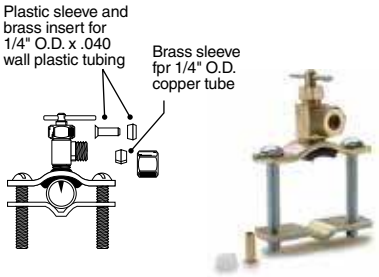
Humidifier Valve clamp kit HV104C-kit



Temperature Range: -30° to +250° F
Clamp fits 3/8" O.D. through 1.315" O.D. tube or pipe. Kit includes 60PT-4 and 63PT-4 for assembly with plastic or nylon tubing. For complete kit, specify entire part number as shown below:

PART NO.	TUBE SIZE	PIPE THREAD
HV104C-4-2 KIT	1/4	1/8

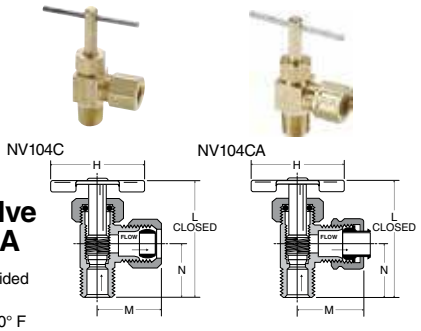
Self-Piercing Humidifier Valve clamp kit SPV104C-kit



Temperature Range: -30° to +250° F
Clamp fits 3/8" O.D. through 1.315" O.D. tube or pipe. Kit includes 60PT-4 and 63PT-4 for assembly with plastic or nylon tubing. For complete kit, specify entire part number as shown below:

PART NO.	TUBE SIZE	PIPE THREAD
SPV104C KIT	1/4	1/8

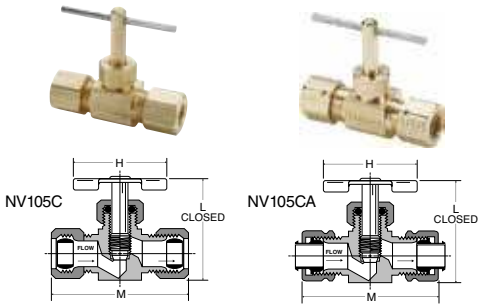
Angle Needle Valve NV104C-NV104CA



Compression to Male Pipe *Provided with Pin Handle
Temperature Range: -45° to +250° F

PART NO.	TUBE SIZE	PIPE THREAD	H	L	M	N
NV104C-4-2*	1/4	1/8	1.50	1.54	.88	.67
NV104CA-4-2*	1/4	1/8	1.50	1.49	.77	.66
NV104C-4-4	1/4	1/4	1.38	1.80	.93	.75
NV104C-5-2*	5/16	1/8	1.50	1.63	.88	.68
NV104C-6-4	3/8	1/4	1.38	1.76	.94	.81

Needle Valve NV105C-NV105CA



Compression to Compression
*Provided with Pin Handle
Temperature Range: -45° to +250° F

PART NO.	TUBE SIZE	H	L	M
NV105C-4*	1/4	1.50	1.41	1.75
NV105C-5*	5/16	1.50	1.35	1.73
NV105C-6	3/8	1.38	1.55	1.93
NV105CA-4*	1/4	1.50	1.41	1.64
NV105CA-6	3/8	1.38	1.55	1.78

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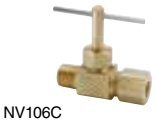
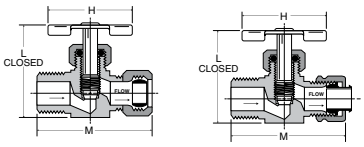
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan



Needle Valve NV106C-NV106CA

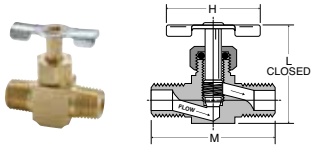
Compression to Male Pipe
*Provided with Pin Handle
Temperature Range: -45° to +250° F



PART NO.	TUBE SIZE	PIPE THREAD	H	L	M
NV106C-4-2*	1/4	1/8	1.50	1.41	1.53
NV106C-4-4*	1/4	1/4	1.50	1.40	1.55
NV106C-5-2*	5/16	1/8	1.50	1.35	1.50
NV106C-6-4	3/8	1/4	1.38	1.56	1.75
NV106CA-4-2	1/4	1/8	1.50	1.41	1.47
NV106CA-4-4*	1/4	1/4	1.50	1.33	1.52
NV106CA-6-4	3/8	1/4	1.38	1.53	1.78

Needle Valve NV107P

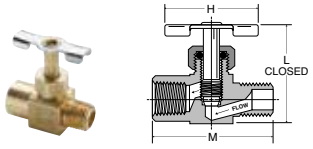
Male Pipe to Male Pipe
*Provided with Pin Handle
Temperature Range: -45° to +250° F



PART NO.	PIPE THREAD	H	L	M
NV107P-2*	1/8	1.50	1.35	1.25
NV107P-4	1/4	1.38	1.54	1.65

Needle Valve NV108P

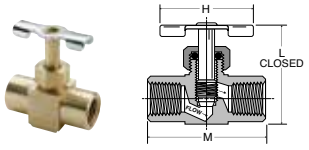
Female Pipe to Male Pipe
*Provided with Pin Handle
Temperature Range: -45° to +250° F



PART NO.	PIPE THREAD	H	L	M
NV108P-2*	1/8	1.50	1.36	1.25
NV108P-4	1/4	1.38	1.56	1.61

Needle Valve NV109P

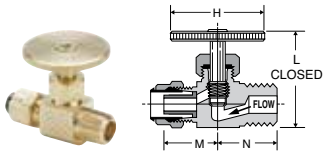
Female Pipe to Female Pipe
*Provided with Pin Handle
Temperature Range: -45° to +250° F



PART NO.	PIPE THREAD	H	L	M
NV109P-2*	1/8	1.50	1.35	1.25
NV109P-4	1/4	1.38	1.53	1.60

Needle Valve NV311P

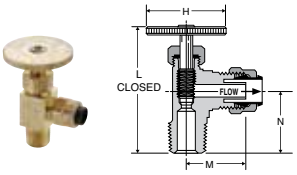
Poly-Tite to Male Pipe
Temperature Range: 0° to +150° F



PART NO.	TUBE SIZE	PIPE THREAD	H	L	M	N
NV311P-4-2	1/4	1/8	1.07	1.17	.50	.63
NV311P-4-4	1/4	1/4	1.07	1.18	.50	.72
NV311P-6-4	3/8	1/4	1.07	1.19	.56	.72

Angle Needle Valve NV312P

Poly-Tite to Male Pipe
Temperature Range: 0° to +150° F



PART NO.	TUBE SIZE	PIPE THREAD	H	L	M	N
NV312P-4-2	1/4	1/8	1.07	1.53	.48	.68
NV312P-4-4	1/4	1/4	1.07	1.72	.56	.86
NV312P-6-4	3/8	1/4	1.07	1.68	.64	.86

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Drain Cocks/ Ground Plug Shutoff

DRAIN COCK NOMENCLATURE	
EXAMPLE: DC604-2	**ATTRIBUTE:**
DC	DRAIN COCK
604	EXTERNAL SEAT
2	1/8 PIPE THREAD

GROUND PLUG SHUTOFF NOMENCLATURE	
EXAMPLE: V204F-4-2	**ATTRIBUTE:**
V	VALVE
204	FLARED TO MALE PIPE
F	FLARED
4	1/4 TUBE O.D.
2	1/8 PIPE THREAD

SPECIFICATIONS	
GROUND PLUG SHUTOFF:	30 PSI
DRAIN COCKS	150 PSI
TEMPERATURE RANGES:	SEE SPECIFIC PART NUMBER FOR TEMPERATURE RANGE
OPERATING FLUID:	AIR, WATER, GAS AND CERTAIN OTHER FLUIDS.
NOTE:	LUBRICANT MAY NOT BE COMPATIBLE WITH SOME FLUIDS, CONTACT FACTORY FOR SPECIAL FLUID REQUIREMENTS

Drain cocks are manufactured in both external and internal seats. Ground plug shutoffs are manufactured from castings or forged bodies for extra strength. Hand tightening provides a metal - to - metal seal.

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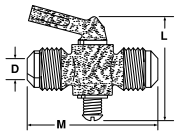
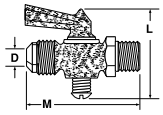
Ground Plug Shutoff V203F



Flare to Flare
T0emperature Range: +32° to +125° F

PART NO.	TUBE SIZE	L	M	FLOW DIA. D
V203F-6-6	3/8	2.26	2.13	.220
V203F-8-8	1/2	2.26	2.50	.281

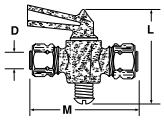
Ground Plug Shutoff V204F



Flare to Male Pipe
Temperature Range: +32° to +125° F

PART NO.	TUBE SIZE	PIPE THREAD	L	M	FLOW DIA. D
V204F-4-2	1/4	1/8	1.85	2.00	.188
V204F-6-4	3/8	1/4	1.85	2.18	.218

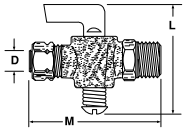
Ground Plug Shutoff V303C / V303CA



Compression to Compression
Temperature Range: +32° to +125° F

PART NO.	TUBE SIZE	L	M	FLOW DIA. D
V303C-4-4	1/4	1.88	2.33	.188
V303CA-4-4	1/4	1.90	1.75	.188
V303C-6-6	3/8	2.26	2.45	.218
V303CA-6-6	3/8	1.76	1.60	.218

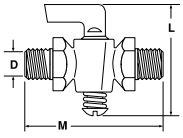
Ground Plug Shutoff V304C / V304CA



Compression to Male Pipe
Temperature Range: +32° to +125° F

PART NO.	TUBE SIZE	PIPE THREAD	L	M	FLOW DIA. D
V304C-4-2	1/4	1/8	1.90	2.29	.188
V304CA-4-2	1/4	1/8	1.88	2.00	.188
V304C-4-4	1/4	1/4	1.90	2.15	.188
V304C-6-4	3/8	1/4	1.83	2.24	.218
V304CA-6-4	3/8	1/4	1.83	2.11	.218

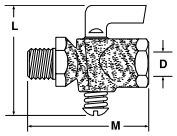
Ground Plug Shutoff V401P



Male Pipe to Male Pipe
Temperature Range: +32° to +125° F

PART NO.	PIPE THREAD	L	M	FLOW DIA. D
V401P-2-2	1/8	1.90	2.25	.188
V401P-4-4	1/4	1.90	1.98	.188

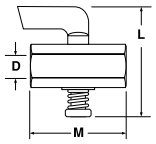
Ground Plug Shutoff V402P



Female Pipe to Male Pipe
Temperature Range: +32° to +125° F

PART NO.	FEMALE PIPE THREAD	PIPE THREAD	L	M	FLOW DIA. D
V402P-2-2	1/8	1/8	1.85	1.78	.218
V402P-4-4	1/4	1/4	1.86	2.26	.218
V402P-6-6	3/8	3/8	2.34	2.21	.245

Ground Plug Shutoff V403P

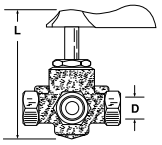


Female Pipe to Female Pipe
Temperature Range: +32° to +125° F

PART NO.	FEMALE PIPE THREAD	L	M	FLOW DIA. D
V403P-2-2	1/8	1.90	1.51	.218
V403P-4-4	1/4	1.90	1.65	.188
V403P-6-6*	3/8	2.25	2.00	.250

*Made from extruded bar stock

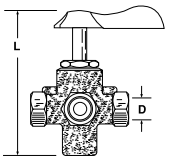
Three-way valve V406P



Female Pipe three ends
Temperature Range: -40° to +180° F

PART NO.	PIPE THREAD	L	FLOW DIA. D
V406P-4	1/4	3.10	.281

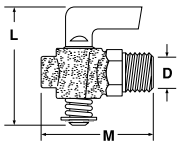
Four-way valve V407P



Female Pipe four ends
Temperature Range: -40° to +180° F

PART NO.	PIPE THREAD	L	FLOW DIA. D
V407P-4	1/4	3.30	.281

Ground Plug Shutoff DC601



Temperature Range: +32° to +125° F

PART NO.	PIPE THREAD	L	M	FLOW DIA. D
DC601-2	1/8	1.90	1.40	.170
DC601-4	1/4	1.90	1.52	.170
DC601-6	3/8	2.26	1.74	.281
DC601-8	1/2	2.29	1.82	.281

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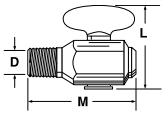
Parker Hannifin Corporation
Fluid System Connectors
Otsego, Michigan

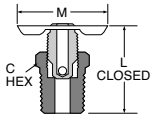
Drain Cock DCR601



Temperature Range: -30° to +250° F

PART NO.	PIPE THREAD	L	M	FLOW DIA. D
DCR601-4	1/4	1.41	1.73	.156

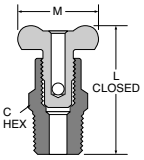
Internal Seal Drain Cock DC602



Temperature Range: -65° to +250° F

PART NO.	PIPE THREAD	C HEX	L	M
DC602-2	1/8	13/32	.92	1.25
DC602-4	1/4	9/16	.94	1.25

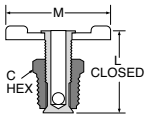
Drain Cock DC603



Temperature Range: -65° to +250° F

PART NO.	PIPE THREAD	C HEX	L	M M
DC603-2	1/8	5/8	1.41	1.00
DC603-4	1/4	5/8	1.54	1.16
DC603-6	3/8	11/16	1.63	1.16

External Seal Drain Cock DC604

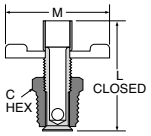


Temperature Range: -25° to +250° F

PART NO.	PIPE THREAD	C HEX	L	M
DC604-2*	1/8	7/16	.85	1.25
DC604-4	1/4	9/16	1.00	1.38
DC604-6*	3/8	11/16	1.22	1.68

*When assembled handle wings are down facing

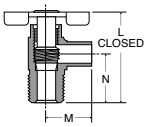
External Seal Drain Cock DC606



Temperature Range: -65° to +250° F

PART NO.	PIPE THREAD	C HEX	L	M
DC606-4	1/4-18	9/16	1.50	1.38

Bib Drain Valve DC607



Temperature Range: -65° to +250° F

PART NO.	HOSE SIZE	PIPE THREAD	FLOW	L	M	N N
DC607-4	3/8	1/4	.31	1.32	.67	.71

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