hymatik

Bladder Accumulators Oil & Gas

207 bar to 420 bar range

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker OLAER

ENGINEERING YOUR SUCCESS.

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Design Features and Benefits

1 Shell
Forged seamless chrome molybdenum steel, designed and manufactured to PED 97/23/EEC and CE marked. Working pressure 207, 310, 345 and 420 bar.

2 Label
With assembly specification and installation details.

3 Material Certification
Available on request for all major pressure loaded parts to EN 10204 3.1

4 Finish
One coat primer paint as standard. Special paints available.

5 Bladder
Totally enclosed construction with an extensive range of elastomers available. See page 5 for Bladder details.

6 Fluid Port Assembly
Integral high-flow port and poppet valve assembly with an anti-extrusion ring. For options see page 3.

7 Safety
All gas-loaded accumulators are pressurised vessels and it is recommended that safety consideration be given to the application in which they are used. A relief valve should always be fitted to the hydraulic system with the option of a burst disc to protect the accumulator. See Installation and Servicing data sheet for information regarding installation of accumulators.

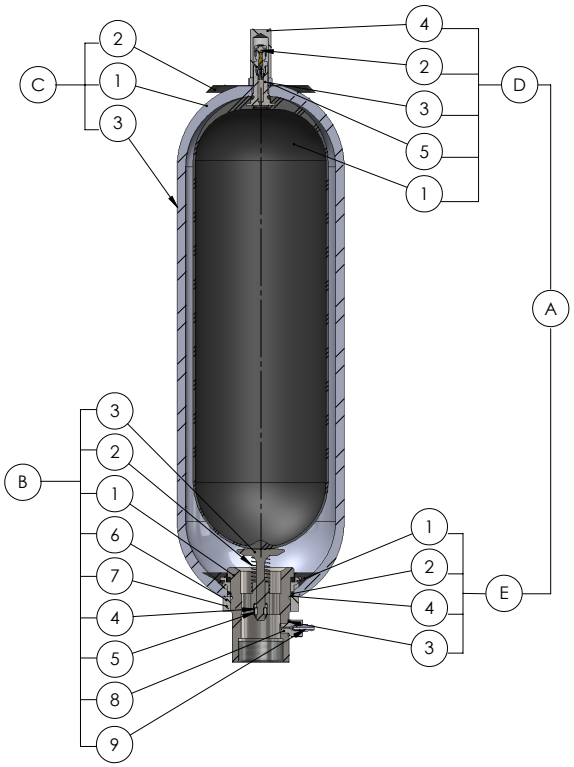
8 Pressure Testing
A hydro static pressure test is carried out on all our accumulator shells during the manufacturing process. We can carry out additional pressure testing witnessed by a specified Inspection Authority and/or customer as an optional extra if required.

We can also carry out a hydro-pneumatic pressure test on the complete assembly as an optional extra if required. Again this can be witnessed by a specified inspection authority and/or customer.

9 Accessories
A complete range of accumulator accessories are available from Parker Olaer.

10 Spare Parts
Available on request.

Please Note: The information in this datasheet is subject to change without prior notice.



A	Bladder Kit comprising:
D	Bladder assembly
D1	Bladder
D2	Gas valve assembly
D3	Locknut
D4	Protective cap
D5	'O' ring stem
E	Anti extrusion ring assembly
E1	Anti extrusion ring
E2	'O' ring fluid port
E3	Bonded seal*
E4	Back-up ring

B	Fluid port assembly comprising
B1	Fluid port body
B2	Spring
B3	Poppet valve
B4	Collett
B5	Piston
B6	Flanged washer
B7	Locking ring
B8	Bleed adaptor*
B9	Bleed valve*
C	Shell assembly comprising:
C1	Shell
C2	Label
C3	Label warning

Note: Models 1/54 litres detailed above. Models 0.6 litres have Gas Valve assembly integral with bladder stem without protective cap fitted. * Not fitted on all models

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Litres	Bladder material	Bladder stem/ gas valve	—	Shell and fluid port	—	Maximum working pressure	Design Number/ Approval

Code	Bladder Material
0	Nitrile standard
1	Butyl
2	Low temperature nitrile
3	Low permeability nitrile
6	Viton
8	High temperature nitrile

Code	Maximum Working Pressure
20	207 bar
31	310 bar
34	345 bar
35	350 bar
42	420 bar (10-54L only)

Code	Volume
OB	0.16
OF	0.6
011	1
03	2.5
04	4
10	10
20	20
28	28
37	37
54	54

Code	Shell and Fluid Port
00	Oil service
02	Low/medium corrosive service (lined shell)
W6	Stainless steel externals, unlined shell
CZ	Stainless steel externals, unlined shell 1/2"NPT connection (10-54 litre only)
DW	Stainless steel externals, unlined shell 3/4"NPT connection (10-54 litre only)
DU	Stainless steel externals, unlined shell 1"NPT connection (10-54 litre only)
DL	Stainless steel externals, unlined shell 1/2"BSP connection (10-54 litre only)
EZ	Stainless steel externals, unlined shell 3/4"BSP "necked" connection (10-54 litre only)
13	Oil service (NPT connection)
14	Low/ medium corrosive service (lined shell, NPT connection)

Code	Bladder Stem/Gas Valve		
	0.16-3 L	4-37L	54L
0A	5/8"UNF CS Stem/ 1/4"BSP Brass Gas Valve	7/8"UNF CS Stem/ 1/4"BSP Brass Gas Valve	M50x1.5P CS Stem/ 1/4"BSP Brass Gas Valve
SA	5/8"UNF SS Stem/ 1/4"BSP SS Gas Valve	7/8"UNF SS Stem/ 1/4"BSP Brass Gas Valve	M50x1.5P SS Stem/ 1/4"BSP Brass Gas Valve
3F	n/a	7/8"UNF SS Stem/ 1/4"BSP SS Gas Valve	M50x1.5P SS Stem/ 1/4"BSP SS Gas Valve
9A	5/8"UNF CS Stem/ 0.302"-32 Brass Gas Valve	n/a	n/a
4A	n/a	7/8"UNF CS Stem/ 0.302"-32 Brass Gas Valve	7/8"UNF CS Stem/ 0.302"-32 Brass Gas Valve
6A	n/a	n/a	M50x1.5P CS Stem/ 0.302"-32 Brass Gas Valve

Code	Design Standard/ Authority Approval
1	Lloyds/CE

Example: 0400A-00-341

Litres:	04
Bladder Material:	Nitrile Standard
Bladder Stem/ Gas Valve:	7/8" UNF/1/4" BSPM
Shell & Fluid Port:	Oil Service
Maximum working pressure:	345 bar
Design Number/Approval:	Lloyds/CE Approval

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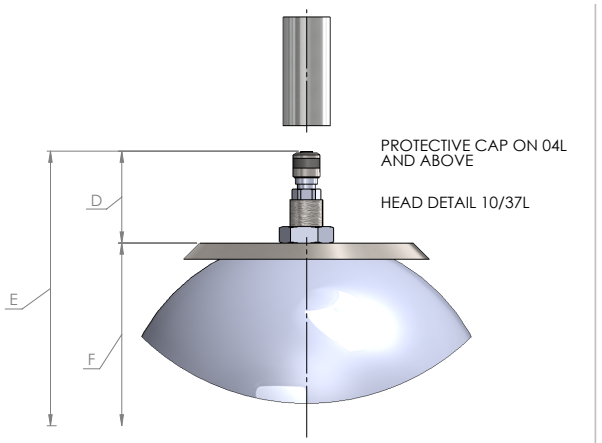
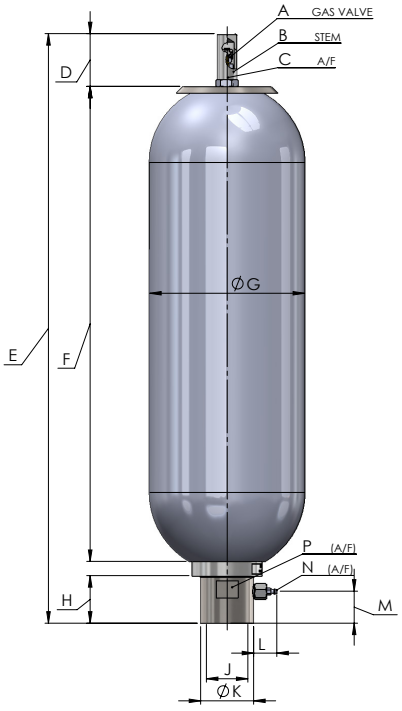
Accumulator Cooler Division Europe
Sandycroft, UK

Capacities and Dimensions

Nominal Capacity Litres	Effective Gas vol. Litres	Work press. bar	Max Flow Rate lt/min	Weight Dry Kilo	Dimensions in mm unless stated otherwise and subject to manufacturer's tolerances													
					A Inches	B Inches	C	D	E	F	G	H	J Inches	K	L	M	N	P
OB	0.16	345	27	2.00	¼ BSP	5/8 UNF	24	40	292	205	55	36	½ BSPF	26	-	-	-	23
OF	0.60	345	109	2.70	¼ BSP	5/8 UNF	24	40	266	175	90	37	¾ BSPF	35	-	-	-	32
011	1.15	207	109	5.4	¼ BSP	5/8 UNF	24	40	292	200	115	37	¾ BSPF	35	-	-	-	32
011	1.15	345	109	5.7	¼ BSP	5/8 UNF	23	40	292	200	115	37	¾ BSPF	35	-	-	-	32
03	2.5	345	215	10.00	¼ BSP	5/8 UNF	23	40	506	402	115	49	1 BSPF	44	5	32	15	41
04	3.8	207	477	15.20	¼ BSP	7/8 UNF	33	78	455	289	169	74	1 ¼ BSPF	60	36	39	9	55
04	3.8	345	477	15.20	¼ BSP	7/8 UNF	33	78	455	289	169	74	1 ¼ BSPF	60	36	39	9	55
10	9.4	207	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	219	70	2 BSPF	76	36	46	9	69
10	9.4	310	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	219	70	2 BSPF	76	36	46	9	69
10	9.4	345	749	35.00	¼ BSP	7/8 UNF	33	78	575	407	221	70	2 BSPF	76	36	46	9	69
10	9.4	420	749	34.00	¼ BSP	7/8 UNF	33	78	575	407	229	70	2 BSPF	76	36	46	9	69
20	18.8	207	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	219	70	2 BSPF	76	36	46	9	69
20	18.8	310	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	219	70	2 BSPF	76	36	46	9	69
20	18.8	345	749	55.00	¼ BSP	7/8 UNF	33	78	886	718	221	70	2 BSPF	76	36	46	9	69
20	18.8	420	749	54.00	¼ BSP	7/8 UNF	33	78	886	718	229	70	2 BSPF	76	36	46	9	69
28	25.8	207	749	61.00	¼ BSP	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
28	25.8	345	749	61.00	¼ BSP	7/8 UNF	33	78	1158	990	221	70	2 BSPF	76	36	46	9	69
37	35.2	207	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	219	70	2 BSPF	76	36	46	9	69
37	35.2	310	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	219	70	2 BSPF	76	36	46	9	69
37	35.2	345	749	91.00	¼ BSP	7/8 UNF	33	78	1407	1239	221	70	2 BSPF	76	36	46	9	69
37	35.2	420	749	86.00	¼ BSP	7/8 UNF	33	78	1407	1239	229	70	2 BSPF	76	36	46	9	69
54	49.2	207	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	219	70	2 BSPF	76	36	46	9	69
54	49.2	310	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	219	70	2 BSPF	76	36	46	9	69
54	49.2	345	749	130.00	¼ BSP	M50x 1.5	69	66	1922	1766	221	70	2 BSPF	76	36	46	9	69
54	49.2	420	749	119.00	¼ BSP	M50x 1.5	69	66	1922	1766	229	70	2 BSPF	76	36	46	9	69

Note: Dimensions are based on current stock and are subject to change without prior notice.





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Accessories

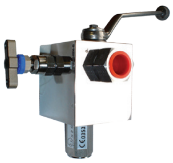
Safety Blocks

Carbon Steel Safety Block (345 bar)

Materials: Carbon steel. All blocks are fully tested.
Seals: Nitrile fitted as standard. Viton and other options also available.
Connections :
- Pressure gauge connection (M port).
- Wide range of adaptors for accumulator connection.
- All G threads (BSP) to BS2779 1986. Performance data available.

Other:
- Pressure relief valve for the protection of accumulator.
- Manual dump to tank valve as standard.
- Optional additional electomagnetic dump to tank valve.

Stainless Steel Safety Block (345 bar & 690 bar)



Materials: 316 Stainless steel. All blocks are fully tested.
Seals: Nitrile fitted as standard. Viton and other options also available.
Connections:
- Pressure gauge connection (M port).
- Wide range of adaptors for accumulator connection.
- All G threads (BSP) to BS2779 1986.
- For 760 bar only - All NPT to ANSI/ASME B.1.20.1 1983
- Performance data available.

Other:
- Pressure relief valve for the protection of accumulator.
- Manual dump to tank valve as standard.

Burst Discs and Permanent Charging Heads

Parker Olaer burst disc assemblies and/or permanent charging heads are available for most accumulators. For the Oil & Gas range of accumulators, we use a specially designed stainless steel adaptor which can be filled with gas volume, burst disc and presure gauge in numerous combinations.

Burst discs are a safety device which releases the gas pressure independent of the pressure being caused by a fire or a failure of other safety equipment in the system. This is a secondary safety device, and it should be set higher that the normal hydraulic safety devices in the system.

Bladder Details

Bladder Kit

Comprises of:
- Bladder assembly (bladder, integral stem, gas valve, protective cap*, stem 'O' seal)
- Anti-extrusion ring
- 'O' fluid port ring
- Back-up ring
- Seal and bleed plug*

*4 Litres capacity and above

Always quote full part number e.g. 5410A-00 54L, capacity, Butyl Rubber, 1/4"BSP.

Material According to Temperature Range

Material Code	Bladder Material	Temperature Range (°C)			
		Static		Dynamic	
0	Nitrile	-20	100	-15	100
1	Butyl	-15	120	-15	120
2	Low Temp Nitrile	-40	70	-25	70
3	Low Permeability Nitrile	0	105		
6	Fluorocarbon (Viton)	-20	130		
7	High Aromatic Nitrile	0	105		
8	High Temp Nitrile	0	150		
9	EPI - Chlorohydin 100	-20	120		
A	Ethylene Propylene (EP)	-20	120		
B	EPI - Chlorohydin 200	-40	120		
K	Special Low Temp Nitrile	-79	100	-59	100
L	Peroxide Cured EPDM	Please contact us for details			
M	High Temperature Flurocarbon	-10	200		
N	Low Temp Nitrile	-45	70		

Note: Models 1/54 litres detailed above. Models 0.6 litres have Gas Valve assembly integral with bladder stem without protective cap fitted. * Not fitted on all models

Bladder Capacity / Overall Dimensions

Accumulator Capacity (L) Nominal	Dimension H	D	5/8" (16mm)	7/8" (22mm)	2" (50mm)
0.16	154	41	•		
0.6	132	73	•		
1.15 (1.25)	147	91	•	•	
3	335	100	•	•	
4	203	142		•	
5	680	100		•	
6	305	142		•	
9 (10)	570	142		•	
12.5	655	142		•	
10	283	198		•	•
12	406	198			•
20	610	198		•	•
24.5	719	198			•
28	880	198		•	
37	1128	198		•	•
42	1280	198		•	
54	1603	198		•	•

Note: Dimensions are based on current stock and are subject to change without prior notice.

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Sandycroft, UK

Charging Sets

A charging set is an indispensable instrument for the verification, pressurization and nitrogen bleeding of most of the hydraulic accumulators available on the market. To use this unit, it is screwed on the gas charging valve of the accumulator and connected via a high pressure hose to the nitrogen source, equipped with a pressure regulator. If only the nitrogen pressure is to be controlled or reduced, this hose is not necessary.

Charging Sets (no case)

Specification

Part Number

10503 Composing:

- Carbon steel body
- Hose including fixed nitrogen adaptor (5/8" BSP Male)
- Bleed valve
- Pressure gauge
- Connection: ¼" BSP male coned to suit hose assembly

Charging Hose: 11774
Maximum Working Pressure: 345 Bar
End Termination: 5/8" BSP male bullnose
Length: 2.5 metres

For assembly WITHOUT hose, part numbers become 10500-02, 10500-03 etc.

Charging Kits (with case)

Specification

Universal Charging Set:

10691-XX Composing:

- Charging set body
- Pressure Gauge (refer to table below)
- 1 x Charging Hose (refer to table below)

Charging Hose: 50096-099
Maximum Working Pressure: 345 Bar
End Termination: 1/4" BSP female swivel
Length: 2.5 metres

Charging Hose: 54248-099
Maximum Working Pressure: 690 Bar
End Termination: 1/4" BSP female swivel
Length: 2.5 metres

Part No	Pressure Range (bar)	Charging Set Contents		
		Pressure Gauge(s)		
		Pressure (bar)	Part No	Charging Hose
10500-02	0-25	0-25	45053-099	n/a
10500-03	0-60	0-60	45084-099	n/a
10500-04	0-160	0-160	45085-099	n/a
10500-05	0-250	0-250	45086-099	n/a
10500-07	0-400	0-400	45087-099	n/a
10503-02	0-25	0-25	45053-099	11774
10503-03	0-60	0-60	45084-099	11774
10503-04	0-160	0-160	45085-099	11774
10503-05	0-250	0-250	45086-099	11774
10503-07	0-400	0-400	45087-099	11774
10520-10	0-690	0-1000	45140-099	n/a
10523-10	0-690	0-1000	45140-099	55354-099

Optional Extras

Country	Part No.	Description
UK	50094-099 50096-099 50097-099 55354-099	Nitrogen Cylinder Adaptor ¼"BSP (M) x 5/8"BSP (M) Charging Hose ¼"BSP (F) 345 bar x 2.5m long ¼" both ends Extension Adaptor for Charging Hose 345 bar Charging Hose ¼"BSP (F) 690B x 2.5m long
Accessories	50032-V10 43183 10127 10128 11015	Charging Hose Adaptor ¼"BSP (M) x ¼"NPT (F) Charging Set Carrier Box Charging Block Elbow ¼"BSP (M) Charging Block Elbow .302" x 32 TPI (M) Tool Kit

Part No	Pressure Range (bar)	Set/ Kit Contents			
		Pressure Gauge(s)			
		Pressure (bar)	Part No	Charging Hose	Case
10690-02	0-25	0-25	45053-099	50096-099	43183
10690-03	0-60	0-60	45084-099	50096-099	43183
10690-04	0-160	0-160	45085-099	50096-099	43183
10690-05	0-250	0-250	45086-099	50096-099	43183
10690-07	0-400	0-400	45087-099	50096-099	43183
10691-02	0-25	0-25	45053-099	11774	43183
10691-03	0-60	0-60	45084-099	11774	43183
10691-04	0-160	0-160	45085-099	11774	43183
10691-05	0-250	0-250	45086-099	11774	43183
10691-07	0-400	0-400	45087-099	11774	43183
10520-10	0-690	0-1000	45140-099	n/a	n/a
10693-10	0-690	0-1000	45140-099	54248-099	n/a
10694-10	0-690	0-1000	45140-099	n/a	43183
10692-10	0-690	0-1000	45140-099	54248-099	43183

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Sandycroft, UK

Clamps

Part Number	Diagram	Accumulator Capacity (Litres)	Dimensions in mm									Mounting Bolts	Mass kg
			A	B	C	D	E	F	G (ref)	H	I		
10957	C	0.6	143	127	90	96	30	-	60	13	9	M8 x 30	0.59
10981	C	1 - 3	137	144	100	111 - 116	30	-	73	13	9	M8 x 80	0.75
10982-DEE	B	4 - 9	190	186	146	170	30	244	100	13	9	M8 x 80	1.25
10983	B	10 - 54	250	267	211	218 - 228	40	306	129	21	15	M12 x 80	1.50
11060-DEE	A	12 - 54 HP200	270	280	220	256 - 261	40	345	140	10.5	10.5	M10 x 50	2

Diagram A

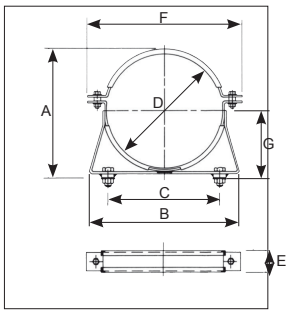


Diagram B

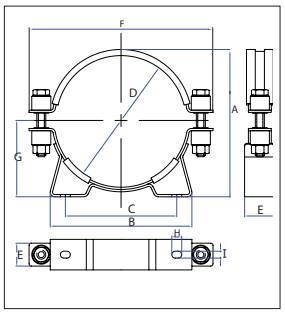
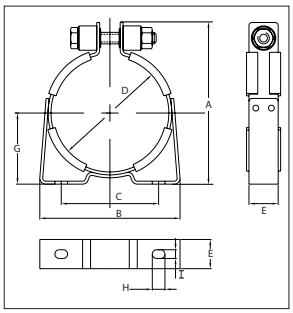
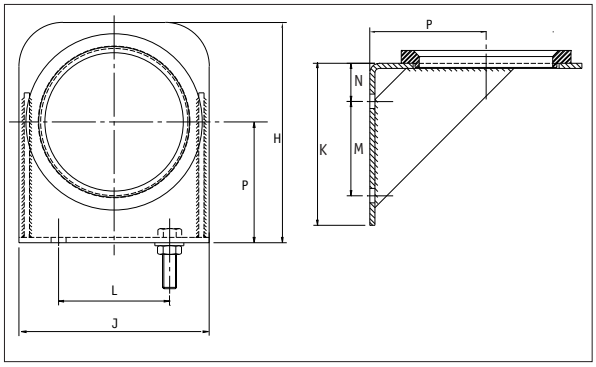


Diagram C



Brackets



Brackets are manufactured from carbon steel

Support bracket assembly (c/w cushion ring)
Mounting bolts - M16 X 70

Spare cushion rings:
4 to 9L part number: 48472-A00
10 to 54L part number: 48473-A00

Model Number	Accumulator Capacity (L)	Dimensions							Mass (kg)
		H	J	K	L	M	N	P	
10962-DEE	4 - 9	185	165	150	85	85	40	102	2.5
10961	10 - 54	250	216	191	108	111	45	130	6
11061	12 - 54	250	240	191	108	111	45	140	7

Adaptors

Male/Male Adaptor (BSP/BSP)

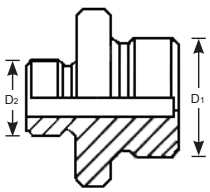
Part Number	D_1	D_2
50304-***	G1¼"M	G1"M
50716-***	G1¾"M	G½"M
50715-***	G1"M	G½"M
50713-***	G1¼"M	G½"M
50053-***	G1¾"M	G¾"M
50714-***	G1"M	G¾"M
50712-***	G1¼"M	G¾"M
50711-***	G2"M	G¾"M
50054-***	G1"M	G1"M
50055-***	G1¼"M	G1¼"M
50056-***	G2"M	G2"M
52012-***	G2"M	G1¼"M
50454-***	G2"M	G½"M

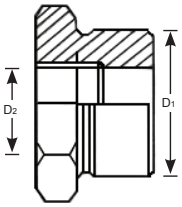
Male/Female Adaptor (BSP/BSP)

Part Number	D_1	D_2
50036-***	G1 1/4"M	G1/4"F
50037-***	G1 1/4"M	G3/8"F
50038-***	G1 1/4"M	G1/2"F
50039-***	G1 1/4"M	G5/8"F
50040-***	G1 1/4"M	G3/4"F
50033-***	G2"M	G1/4"F
50015-***	G2"M	G3/8"F
50042-***	G2"M	G1/2"F
50043-***	G2"M	G3/4"F
50044-***	G2"M	G1"F
50045-***	G2"M	G1 1/4"F
50046-***	G2"M	G1 1/2"F

Replace *** with appropriate material code e.g. 50073-V10

Code	Description
V10	Carbon Steel
006	Stainless Steel





More adaptor options available upon request

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