Enerpac System Components:

All the additional elements you need to complete your high pressure hydraulic system and get started.

Engineered to work with your Enerpac cylinders, pumps and tools, all Enerpac components are designed to the most exacting standards.

With this complete line of hydraulic hoses, couplers, fittings, manifolds, oil and gauges, Enerpac has the accessories to complement your system and ensure the efficient operation, long life and safety of your hydraulic equipment.



Yellow Pages

For sample system set-ups and how to correctly specify your system components, please view the Enerpac "Yellow Pages" section in this catalogue.

Page:

404



Maintain System Integrity

Use Enerpac System
Components, designed to
interface with Enerpac cylinders,
als to ensure your system

pumps and tools to ensure your system operates at peak performance.



System Components & Control Valves Overview



▼ HC7206

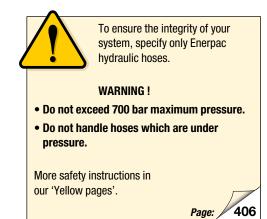


Thermo-Plastic Safety Hoses (H700-Series)

- For demanding applications, featuring a 4:1 safety factor
- Maximum working pressure of 700 bar
- Outside jacket is polyurethane, to provide maximum abrasion resistance
- Exhibits low volumetric expansion under pressure to enhance overall system efficiency
- Vinyl strain relief guard on both ends of hose to improve life and durability on all models.
- ▼ To prevent back pressure and to increase cylinder retraction speed, when using long hoses with single-acting cylinders, the Enerpac HC7300-Series of hoses with increased internal diameter is the best choice.



Safety and Quality



▼ Hose End Couplings

1/4" NPTF	
%" NPTF	
A604	
A630	
AH604	
AH630	
C604	
CH604	

High Pressure Hydraulic Hoses

Hose Oil Capacity

When using greater hose lengths, it is sometimes necessary to fill the pump reservoir after filling the hoses.

To determine the hose oil capacity, use the following:

For 6,4 mm inside diameter hoses:

Capacity (cm 3) = 32,1699 x Length (m)

For 9,7 mm inside diameter hoses:

Capacity (cm 3) = 73,8981 x Length (m)

Internal Diameter		e End and Couplers *	Hose Length	Model Number	À
(mm)	End one	End two	(m)		(kg)
			_	_	_
			-	_	_
	1/4" NPTF	A630	1,8	HB7206QB	1,1
			-	-	_
		CH604	1,8	HC7206Q	1,0
			0,6	H7202	0,5
			0,9	H7203	0,7
			1,8	H7206	0,9
		%" NPTF	3,0	H7210	1,4
			6,1	H7220	2,8
			9,1	H7230	4,5
			15	H7250	7,0
			_	_	_
		A604	1,8	HA7206B	1,1
6,4			_	_	_
			-	-	_
	%" NPTF	411004	_	_	_
		AH604	1,8	HA7206	1,0
			3,0	HA7210	1,5
		AH630	1,8	HB7206	1,0
			0,9	HC7203B	1,0
		C604	1,8	HC7206B	1,3
			3,0	HC7210B	1,8
			0,9	HC7203	0,8
		CUCO4	1,8	HC7206	1,0
		CH604	3,0	HC7210	1,5
			6,1	HC7220	2,9
			1,8	HC7206C	1,1
	CH604	CH604	6,1	HC7220C	3,0
			15	HC7250C	7,0
			1,8	H7306	1,6
			3,0	H7310	2,4
		%" NPTF	6,1	H7320	4,5
			9,1	H7330	7,3
9,7	%" NPTF		15	H7350	11,5
			1,8	HC7306	1,7
		CH604	3,0	HC7310	2,5
			6,1	HC7320	5,1

^{*} For technical information on couplers see next page.





Inside Diameter:

6,4 - 9,7 mm

Length:

0,6 - 15 m

Maximum Operating Pressure:

700 bar



GA45GC Gauge Adaptor

Protect yourself from system overloading by simply ordering one part number for a pre-assembled gauge, adaptor block and coupler.

Page:



Torque Wrench Hoses

Use Enerpac THQ-Series twin safety hoses with double-acting wrenches to ensure the integrity of your hydraulic system.

Page:



Fittings

For additional fittings see the fitting page of the System Components section.



Premium Hydraulic Oil

Use only genuine Enerpac hydraulic oil. Wrong fluid can destroy seals and pump and will render your warranty null and void your guarantee.

Page:

132

▼ Shown: FH604, FR400, AR630, C604, AH604, AR400



3/8" High Flow Couplers

- Standard equipment on most Enerpac cylinders
- Recommended for use on all Enerpac pumps and cylinders where space and porting permits
- Includes "2-in-1" dust cap for use on male and female couplers.

3/8" High Pressure 'Flush-face' Couplers

- Featuring "Push-to-connect" operation, to guarantee good connection every time
- Flush-face, zero-leak operation for minimal spillage and reduced pressure drop
- HTMA * recognized for safety and performance
- Will not interchange with low pressure couplers.

3/8" Regular Spee-D-Couplers®

- For medium duty applications with hand pumps
- Includes female aluminium dust cap.

1/4" Regular Couplers

- For use with small cylinders and hand pumps
- Includes female aluminium dust cap.

1/4" Spin-on Torque Wrench Couplers

- For use with 700 bar S, W, RSL, DSX and HMT-Series torque wrenches, THQ-Series hoses and 700 bar torque pumps.
- * Hydraulic Tool Manufacturers Association.

Quick Connection of Hydraulic Lines



Thread sealer

To seal NPTF threads use one of the new anaerobic thread sealers or Teflon paste. When using Teflon Tape, apply the tape one thread

from the end of a fitting to prevent it from winding up in the hydraulic system.



WARNING!

Couplers should be pressurized only when completely connected and should not be coupled or

uncoupled when pressurized.

More safety instructions in our 'Yellow Pages'.

Page: 406

F-S Flus

F-Series

Flush-faced couplers provide reduced pressure drop versus other types and are preferred in dirty, grimy construction and mining environments due to easy clean, non-dirt trapping faces.

▼ With the use of Enerpac high flow couplers, hoses are easily installed for multiple hydraulic line connections in this 34 points PLC-controlled lifting system.



Hydraulic Couplers



CT604 Safety Tool

Use the Enerpac CT604 to relieve hydraulic back pressure by safely bleeding the hydraulic coupler.

NOTE: For use on CR400 and CH604 700 bar High-Flow Couplers only

Minimize injuries from projectile parts and under-skin hydraulic fluid injections by eliminating unsafe coupler bleeding practices. The CT604 is Enerpacengineering safe for use at 700 bar.

A, C, **Series**



Maximum Flow Capacity:

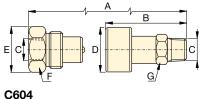
7,6 - 40,0 l/min

Thread:

1/4" - 3/8" NPTF

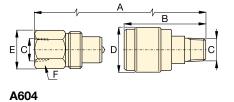
Maximum Operating Pressure:

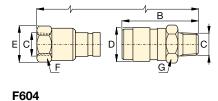
700 bar

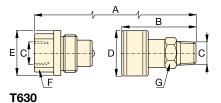




A630









Metal Dust Caps

Steel dust caps are available for the C604 series couplers. Order model number:

CD411M for female half

CD415M

for male half

Maximum	Coupler Type	Model Numbers			Dimensions (mm)							Dust Con(a)
Flow Capacity (I/min)		Complete Set	Female Half	Male Half	A*	В	С	D	E	F	G	Cap(s) Modelnr.
	700 bar High-Flow Coupler						3/8"					
35		C604	CR400	CH604	83	64	NPTF	35	36	32	25	(2x) CD411
	700 bar Flush-Face Coupler						3/8"					
40		F604	FR400	FH604	111	72	78 NPTF	31	31	27	29	-
7,6	700 bar Regular Spee-D-Coupler®		AR400									
		A604		AH604	77	42	3/8" NPTF	28	26	23	19	Z410 female only
	700 bar Regular Coupler						1/4"					
7,6		A630	AR630	AH630	66	35	NPTF	22	20	19	15	Z640 female only
	700 bar Spin-on Coupler						1/4"					
11,4		T630	TR630	TH630	73	60	NPTF	29	29	19	21	-

Value A is total length when male and female half are connected.

▼ Shown: **HF102L**, **HF105L**



- Maximum pump volumetric efficiency
- Maximum internal heat transfer
- Prevents pump cavitation
- Additives prevent rust, oxidation and sludge
- High viscosity index
- Maximum film protective lubricity.

The Genuine Range

Hydraulic Oil

Contents	Model Number	Use only genuine Enerpac Hydraulic Oil.
5 litres	HF105L	The use of any other fluid will render your Enerpac
20 litres	HF102L	warranty null and void.
205 litres	HF104L	warranty nun and void.

▼ OIL SPECIFICATION CHART

Viscocity Index	100 min
Viscocity (cSt @ 40 °C)	32
API Gravity	31-33
Density (cSt @ 15 °C)	875
Flash point	204 °C
Pour point	-32 °C
Colour	Blue
Working Temperature Range	0 - 60 °C
Ideal working temperature	40 °C

700 bar Manifolds

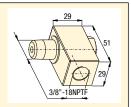
Description		Model Number	Dimensions (mm)
7-port Manifold, short	-	A64	3/8"- 76 50 3/8"- 203 83 18NPTF (7x) 6,3 89 18NPTF (7x) 6,3 184
7-port Manifold, long allows direct mounting of control valves to the manifold.	DESCRIPTION OF THE PERSON OF T	A65	32 32 32 32 32 32 32 32 369 A64 A65
6-port Manifold, hexagon Plugs furnished for all ports %"-18 NPTF.		A66	41 21 50 58 1/4"-20UNC 3/8"-18NPTF (6x)
Control Manifolds For control of 2 or 4 single-acting cylinders simultaneously. AM21 with 5 ports %"NPTF. AM41 with 7 ports %"NPTF.	THE STATE OF THE S	AM21	8 12.7 07.1 76
4-way Manifold Assemblies CR400 female couplers on all %"NPTF ports. With glycerine filled pressure gauges, shut-off valves and robust protection frame. AMGC41 for 4x s/a cylinders AMGC42 for 4x d/a cylinders.	3888	AMGC41	AMGC41 AMGC42

Hydraulic Oil, Manifolds and Fittings



3/8" Swivel Connector

360 degree swivel coupler for optimal orientation of the hydraulic connection on cylinders, pumps and hoses.
Order Model Number. **XSC1**



HF A, AM BFZ FZ Series



			Series		O 8 4			
700 bar Fittings			Model Number	Dimensions (mm)		GOTIOS		
Street Elbow				Α	В	С	D	B B
	IPTF Male IPTF Female		FZ1616	23	33	3/8"-18 NPTF	3/8"-18 NPTF	D C A
Reducing Con	nector							
-	IPTF Female		FZ1615	28	25	%"-18 NPTF	1/4"-18 NPTF	A
	IPTF Female							C D
	IPTF Female IPTF Female	-	FZ1625	47	29	½"-14 NPTF	%"-18 NPTF	В
Hexagon Nipp								
From:	To:							A
1/4"-NPTF	1/4"-NPTF	T Amo	FZ1608	38	16	1/4"-18 NPTF	1/4"-18 NPTF	c
%"-NPTF	%"-NPTF		FZ1619	51	19	%"-18 NPTF	%"-18 NPTF	B
%"-NPTF	%"-NPTF		FZ1617	37	19	%"-18 NPTF	%"-18 NPTF	1
Coupling		~ .						A
From:	To:	17 mag						
%"-NPTF	%"-NPTF		FZ1614	29	23	%"-18 NPTF	%"-18 NPTF	
1/4"-NPTF	1/4"-NPTF	-	FZ1605	29	19	1/4"-18 NPTF	1/4"-18 NPTF	₿/*
Cross		.0.						C
	IPTF Female		FZ1613	45	25	%"-18 NPTF	_	в
To: %"-N	IPTF Female	100						Ā
Tee								-C
From:	To:	AS THE AS						
%"-NPTF	%"-NPTF	- M	FZ1612	45	25	%"-18 NPTF	-	B
1/4"-NPTF	1⁄4"-NPTF	-	FZ1637	45	24	1/4"-18 NPTF	_	L A J
Street Tee								. - A
	IPTF Female IPTF Male		BFZ16312	56	26	3/8"-18 NPTF	3%"-18 NPTF	D C B
Elbow								A
From:	To:	1 H						c l
%"-NPTF	%"-NPTF		FZ1610	33	20	3/8"-18 NPTF	-	В
1/4"-NPTF	1⁄4"-NPTF	-	FZ1638	36	24	1⁄4"-18 NPTF	-	<u> </u>
Reducer		200						А
From:	To:	A STATE OF THE PARTY OF THE PAR	F7 4000	,,	4.0	1/11 40 11577	3/11 46 11575	
%"-NPTF 1/4"-NPTF	1/4"-NPTF 1/2"-NPTF	400	FZ1630	19 28	19 22	1/4"-18 NPTF	%"-18 NPTF	C. D
38"-NPTF	%"-NPTF G1/4"	-	BFZ1630 BFZ16301	19	19	1/4"-18 NPTF G1/4"	½"-14 NPTF	В
Adaptor	W/4		DI 210001	''	1.0	G74	%"-18 NPTF	
From:	To:							^
G1/4"	10: 1⁄4"-NPTF		BFZ-16411	35	19	1/4"-18 NPTF	G1/4"	
G1/4"	1/8"-NPTF	Man Divinion	BFZ-16421	31	19	1/8"-27 NPTF	G1/4"	C
G%"	1/4"-NPTF		BFZ-16323	43	24	1/4"-18 NPTF	G3%"	B
G%"	%"-NPTF		BFZ-16324	43	24	3/8"-18 NPTF	G%"	
Adaptor						,5 .5 .11		
From:	To:							, A
1/4"-NPTF	%"-NPTF	No. of London	FZ1055	44	23	1/4"-18 NPTF	%"-18 NPTF	c D
1/4"-NPTF	1/8"-NPTF		FZ1642	30	19	1/8"-27 NPTF	1/4"-18 NPTF	B/
½"-NPTF	%"-NPTF		FZ1634	42	28	%"-18 NPTF	½"-18 NPTF	
Swivel Fitting								A
	PTF Male IPTF Female		FZ1660	40	22	%"-18 NPTF	%"-18 NPTF	c B

▼ Shown from left to right: SFM41, SFM42 Split-Flow Manifolds



- Split-Flow Manifolds improve safety, precision and control in lifting and lowering operations
- Pressure gauge, flow control valve in each outlet port;
 CR400 couplers installed in each inlet and outlet port
- Regulates both advance and retract speeds: lifting and lowering
- 1 inlet, 4 outlets. Maximum of 4 cylinders per manifold: SFM41 for single-acting cylinders, SFM42 for double-acting cylinders
- Minimum pump oil flow:
 1,40 l/min to deliver 0,15 0,25 l/min per cylinder
- Maximum difference among outlets: 10% of the stroke (in 150 mm)
- More cylinders can be controlled simultaneously by connecting several SFM-models parallel.



Improved safety on basic simultaneous lifting applications



Pressure Gauges G2535L

Glycerine filled pressure gauges are installed in each outlet pressure line to monitor the pressure of each cylinder.



Optimum Performance

Minimum pump oil flow must be 1,40 l/min to deliver 0,15-0,25 l/min per cylinder. Enerpac recommends to use

Z-Class electric or gasoline pumps from the ZE5 and ZG-Series.



SFP-Series, Split-Flow Pumps

When a higher accuracy is required across cylinder strokes in a multi-point lifting or lowering application Enerpac recommends

to use the SFP-Series Split-Flow Pumps.



Contact Enerpac!

Contact the Enerpac office nearest to you for advice and technical assistance in the layout of your ideal Lifting

System or visit us at: www.enerpac.com. Or ask Enerpac for assistance:

enerpac.com/contact-us

To repair the foundation, silos needed to be lifted, levelled and structurally supported. Powered by a ZE5-Series electric pump the split-flow manifold used to operate multiple hydraulic cylinders.

Split-Flow Manifolds

Split-Flow Manifolds

The SFM-Series offer an economical solution for basic multi-point simultaneous lifting applications and enables a single operator to control a maximum of 4 lifting points from one manifold.

The Split-Flow Manifolds are equipped with pressure compensated flow control valves, to preset and limit advance and retract speed of each cylinder, allowing to move up to 4 cylinders simultaneously.

The SFM-Series provide more lifting and lowering control compared to AM-Series Control Manifolds. See flow control valve adjustments table below.

Minimum pump oil flow must be 1,40 l/min (ZE5-Series pumps) to deliver 0,15 - 0,25 l/min per cylinder. Several SFM-models can be connected parallel to the same pump to allow simultaneous operation of 8, 12 or 16 cylinders.

Higher flow pumps are required to achieve faster advance speeds. A 20% higher oil flow must be considered for a proper speed compensation.

Example: when using 4 cylinders: if oil flow of 0,45 l/min is required per cylinder, the pump oil flow must be:

 $4 \times 0.45 = 1.8 \text{ l/min} + 20\% = 2.16 \text{ l/min}.$

The maximum stroke deviation between the cylinders can reach up to 10% in 150 mm depending on the cylinder pressure.

Oil flow adjustment is also possible during cylinder operation by fine tuning using the flow control valves.

All cylinders connected to the SFM-manifold must have the same capacity (effective area). Both advance and retract speed are limited by the same valves. Use hoses of the same lengths to improve the accuracy of the hydraulic system. Improved precision when difference of pressures among the cylinders is within 200 bar.

SFM Series



Inlet Connection:

1x power pump

Outlet Connections:

Max. 4 cylinders

Minimum Pump Flow Required:

1,40 I/min

Maximum Operating Pressure:

700 bar



Load Holding

Use **V66 check valves** for load holding applications with singleacting cylinders.

Page:

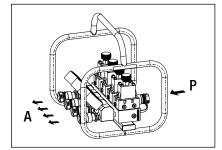
145



Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac

hydraulic hoses. Enerpac recommends to use hoses of the same lengths between the SFM and cylinders to improve system accuracy.



(1,40 l/min) or

higher oil flow

P T T B

SFM41

SFM42

▼ SPLIT-FLOW MANIFOLDS

SFM41

For use with cylinders	Model Number	Minimum oil flow to each cylinder	Female couplers included	Dimensions L x W x H	Ā
		(I/min)		(mm)	(kg)
4x single-acting	SFM41	0,15	CR400	370 x 335 x 375	24
4x double-acting	SFM42	0,15	CR400	370 x 335 x 375	30



Flow Control Valves

The Split-Flow Manifold has pressure compensated flow control valves installed in each outlet line. The oil flow from the

SFM-Manifold to each cylinder can be adjusted by turning the knob on the valve.

Flow Control Valve Adjustments										
Number of Knob Turns	Oil Flow (I/min)		Number of Knob Turns	Oil Flow (I/min)						
1/2	0,15		3	1,9						
1	0,45		3½	3,6						
1½	0,75		4	5,6						
2	0,90		41/2	8,3						
21/2	1,3		Open	10,3						

▼ Shown from left to right: GF230B, GF835B, GP10S



- GF-series gauges: calibrated with dual scale reading for pressure (bar) and force (kN)
- GF-series gauges: all pressure sensing parts are sealed and dampened by glycerine for long life
- GP-series gauges: calibrated with dual scale reading for pressure in bar and psi
- Excellent readability: gauge face dimensions 100 mm
- Fast, easy installation
- Stainless steel gauge cases for corrosion resistance.
- ▼ A GP10S gauge is used on this press to check the hydraulic pressure required to bend flat steel bar.



Visual Reference for System Pressure and Force



Auto-Damper Valve V10

For automatic control of gauge fluctuations, the V10 Auto-Damper Valve controls the movement of the gauge needle by restricting oil flow

in and out of the gauge. No adjustments needed.

Page: /

Snubber Valve V91

Infinitely adjustable for metering oil out of a gauge. The V91 Snubber Valve is also suitable as a shut-off valve to protect the gauge

during high cycle applications.

Page: 144

Used With

All cylinders

All cylinders

5 ton RC, RSM-cylinders

10 ton RC, RCS, RSM-cylinders

All 25 ton RC-cylinders

All 50 ton RC, RR-cylinders

13 ton RCH-Series

RCS201, 302

RCS502, 1002

RCH202, 302, 603

25, 30, 50 ton RC, RCS, RSM, RR **75 and 95 ton RC, RR-cylinders**

150 and 200 ton RR-cylinders

DA.

10 ton VLP Presses

25 ton XLP Presses

50 ton XLP, BPR Presses

100 ton VLP, BPR Presses
200 ton VLP, BPR Presses

Hydraulic Force & Pressure Gauges



Maximum Indicator Pointer

Indicator retains peak readings of pressure or force generated by the system.

Can easily be installed on GP and H-Series gauges. Order model nr: BSA881.



Pressure Gauges

To measure the input pressure into cylinders or high pressure systems. Also for all testing applications.

Force Gauges

To measure external load supported by a cylinder or jack in kN. For pressing parts together under pre-determined loads, weighing, testing, etc.

GP-Series are dry gauges. GF-Series are glycerine filled gauges. GF **GP Series**



Pressure Range:

0 - 1000 bar

Force Range:

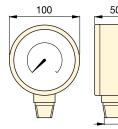
0 - 2000 kN

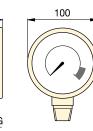
Gauge Face Diameter:

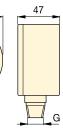
100 mm

Accuracy, % of full scale:

± 1%







GP-serie

GF-serie

	Gauge Type a	nd Calibration Units per Division Model					Gauge Adaptor			
G					Number *	G	Required		143	
bar	psi	bar	kN				GA1	GA2	GA3	
0-700	0-10.000	-	-	10 bar, 100 psi	GP10S	½" NPTF	•	•		
0-1000	0-15.000	_	-	10 bar, 200 psi	GP15S	½" NPTF	•	•		
_	-	0-700	0-45	10 bar, 0,5 kN	GF5B	½" NPTF	•	•		
-	-	0-700	0-100	10 bar, 1 kN	GF10B	½" NPTF	•	•		
_	_	0-700	0-232	10 bar, 2 kN	GF20B	½" NPTF	•	•		
_	_	0-700	0-500	10 bar, 5 kN	GF50B	½" NPTF	•	•		
_	_	0-700	0-124	10 bar, 1 kN	GF120B	½" NPTF	•	•		
-	-	0-700	0-175/275	10 bar, 2 + 5 kN	GF230B	½" NPTF	•	•		
_	_	0-700	0-450/900	10 bar, 5 + 10 kN	GF510B	½" NPTF	•	•		
_	_	0-700	0-210/320/570	10 bar, 5 kN	GF813B	1/4" NPTF			•	
_	-	0-700	0-232/300/500	10 bar, 5 kN	GF835B	1/4" NPTF			•	
_	_	0-700	0-720/930	10 bar, 10 kN	GF871B	1/4" NPTF			•	
 _	_	0-700	0-1400/2000	10 bar, 25 kN	GF200B	1/4" NPTF			•	
 _	_	0-700	0-100	10 bar, 1 kN	GF10B	½" NPTF	•	•		
_	_	0-700	0-232	10 bar, 2 kN	GF20B	½" NPTF	•	•		
_	_	0-700	0-500	10 bar, 5 kN	GF50B	½" NPTF	•	•		
_	_	0-700	0-720/930	10 bar, 10 kN	GF871B	1/4" NPTF			•	
_	_	0-700	0-1400/2000	10 bar, 25 kN	GF200B	1/4" NPTF			•	

GF-Series Force gauges with imperial scale reading (psi, lbs) are available by changing the suffix 'B' into 'P'.

Shown from left to right: H4049L, G2534R, G4089L, G2535L, G4040L



Visual Reference of System Pressure



Gauge adaptor assembly

45° Angled gauge adaptor GA45GC improves safe working conditions.



Gauge Adaptor

For easy gauge installation into almost any system, Enerpac offers a complete line of gauge adaptors.



Snubber Valve V91

Infinitely adjustable for metering oil out of a gauge. The V91 Snubber Valve is also suitable as a shut-off valve to protect the

gauge during high cycle applications.

Glycerine Filled (G-Series)

- Dual scale reading calibrated in bar and psi
- All pressure sensing parts sealed and dampened by glycerine for
- Includes safety blow-out disk and pressure equalizing membrane
- Gauge snubbers or needle valves recommended for high cycle applications.

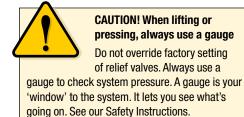
High Cycle Dry Gauges (H-Series)

- Dual scale reading calibrated in bar and psi
- Ideal for use in many applications, specifically for high cycle and harsh environments
- Gauge snubbers or needle valves recommended to shut off gauge when not in use.



■ When lifting or pressing, always use a gauge. A gauge is your 'window' to the system. It lets you see what's going on.

Hydraulic Pressure Gauges



406 Page:

G **Series**



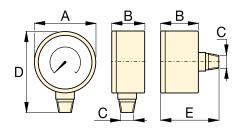
Pressure Range:

0 - 1000 bar

Face Diameter:

63 - 100 mm

Accuracy, % of full scale: ± 1,0 - 1,5%



Size	Connection		Dimensions (mm)								
(mm)		Α	В	С	D	E					
63	Lower Mount	63	37	1/4" NPTF	84	_					
63	Center Rear	63	37	½" NPTF	_	63					
100	Lower Mount	100	29	½" NPTF	121	_					
100	Lower Mount	100	49	½" NPTF	136	_					

Note: dimensions for reference only.



Maximum Indicator Pointer

Indicator retains peak readings of pressure or force generated by the system.

Can easily be installed on GP and H-Series ø 100 mm gauges. Order model nr: BSA881.

▼ SELECTION CHART

Gauge	Pressur	e Range		Model	Number			ajor		nor	Ma	•		nor
Series	(bar) (psi)		ø 63 ¼" NPTF	ø 63 ¼" NPTF	ø 100 ¼" NPTF	ø 100 ½" NPTF	Gradi	uation	ation Graduation		Graduation		Graduation	
			Lower Mount Center Rear		Lower Mount	Lower Mount	bar				psi			
			Accuracy: ± 1,5 % Acc		Accuracy	Accuracy: ± 1,0 %		ø 100	ø 63	ø 100	ø 63	ø 100	ø 63	ø 100
G-Series	0-7	0-100	G2509L	_	-	_	1	-	0,01	-	10	-	2	-
	0-11	0-160	G2510L	_	-	-	1	_	0,02	_	10	-	2	_
	0-14	0-200	G2511L	_	-	-	1	_	0,02	-	50	ı	5	_
	0-20	0-300	G2512L	-	-	-	5	_	0,50	_	50	-	5	_
	0-40	0-600	G2513L	_	-	-	10	_	1	_	100	ı	10	_
	0-70	0-1.000	G2514L	G2531R	-	-	10	_	1	_	100	-	20	_
	0-140	0-2.000	G2515L	-	_	-	10	_	5	_	500	ı	50	_
	0-200	0-3.000	G2516L	-	-	-	50	_	5	_	500	_	50	_
	0-400	0-6.000	G2517L	G2534R	-	-	100	_	10	-	1000	ı	100	_
	0-700	0-10.000	G2535L	G2537R	G4088L	G4039L	100	100	10	10	2000	1000	200	100
	0-1000	0-15.000	G2536L	G2538R	G4089L	G4040L	100	100	20	20	3000	3000	200	200
H-Series	0-700	0-10.000	-	_	H4049L	H4071L	_	100	_	10	_	1000	_	100

▼ Gauge shown: T6003L



- Dual scale reading calibrated in bar and psi
- All gauges have spring-loaded backs with rubber blow-out plugs to protect case assembly in case of over-pressurization
- Integral maximum indicator pointer standard included
- 2800 and 3500 bar models include flange mounting
- 1/2" NPTF versions are made of high strength alloy steel
- 0.25" cone models are made of 316 stainless steel, with 403 stainless steel on 2800 and 3500 bar models.

Series

Pressure Range:

0 - 3500 bar

Face Diameter:

162 - 192 mm

Accuracy, % of full scale:

 $\pm 0.5 - 1.5\%$



Cone Mount Gauge Adaptor

Contains fittings to connect 1/4" cone fitting gauge to 3/4" cone system. Kit includes 43-301 tee, 43-704 gauge adaptor and 45-116

tubing. Order model number: 83-011.

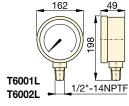
85

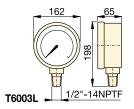


Cone Mount Gauge Connector

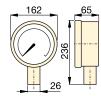
For connecting gauges with 0.25" cone fitting directly to model number 11-100 or 11-400 pump (page 84). May be used with other

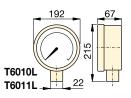
0.25" cone systems Order model number: 43-704





T6007L T6008L





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▼ An Enerpac P2282 hand pump equipped with a T6011L test system gauge is used for proof pressure testing of hydraulic valves.

Pressure Range	Pressure Range	Model	Number	Number Intervals	Gradu- ation	Number Intervals	Gradu- ation
nange	nange	Alloy Steel	Stainless Steel	intervals	Inter- vals	Intervals	Inter- vals
(bar)	(psi)	½" NPTF	0,25 cone	(bar)	(bar)	(psi)	(psi)
0-701)	0-1000	T6001L	_	10	1	100	10
0-3501)	0-5000	T6002L	-	50	5	500	50
0-7001)	0-10.000	T6003L	T6007L	100	10	1.000	100
0-14001)	0-20.000	-	T6008L	200	20	1.000	100
0-28002)	0-40.000	-	T6010L	500	20	5.000	200
0-35002)	0-50.000	-	T6011L	500	50	5.000	200

¹⁾ Acccuracy ± 0,5%

²⁾ Acccuracy ± 1,5%

Digital Hydraulic Pressure Gauge

▼ Gauge shown: **DGR2**



- Rated for system pressure up to 1380 bar
- Displays in bar, psi, MPa and kg/cm²
- Zero reset ensures that gauge reads actual pressure
- IP65 protection, UL listed, CE and RoHS compliant
- . Batteries included, condition indicator on read-out
- Shut-off selectable menu driven
- Back-lit readout allows easy reading in less than ideal lighting
- Protective cover included.



Pressure Range:

0 - 1380 bar

Voltage:

3 Volt (battery)

Accuracy, % of full scale:

 $\pm 0,25\%$



Gauge Adaptor

For easy gauge installation into almost any system, Enerpac offers a complete line of gauge adaptors. Maximum operating pressure 700 bar.

Page:

14

High Pressure Rating		•		Model Number		High Pressure Rating		essure ing
(bar)		(MPa)			(psi)		(kg/cm²)	
Range	Resolution	Range	Resolution		Range	Resolution	Range	Resolution
0-1380	0,1	0-140	0,01	DGR2	0-20.000	1	0-1400	0,1

Weight: 0,23 kg.

▼ Greater accuracy and easier to read: enhance your ability to monitor and control hydraulic system pressure up to 1380 bar.



▼ Shown: GA45GC



- 45° angled gauge improves visibility
- Slim and narrow design
- · Easy to fit in a broad range of systems
- Maximize controlled load movement
- Glycerin dampened gauge with dual scale
- Enerpac High-Flow female coupler CR400.

GA45GC Series

Connection 1:

3/8" NPTF male

Connection 2:

CR400 coupler

Maximum Operating Pressure:

700 bar



4-Way Manifold assembly complete with gauges

Offering ease of portability and convenience with an ergonomic robust design, ready for use.

CR400 female couplers on all ports allow the manifold to be quickly connected to up to 4 cylinders. Glycerine filled, 700 bar gauges and shut-off valves allow operators to work safely. All protected by the robust protection frame.

Manifold Type (Used for cylinders)	Model Number
4x Single-acting	AMGC41
4x Double-acting	AMGC42

Page: 1

132



Power Box

Portable tool box with hand pump, **GA45GC** gauge adaptor assembly, hose and RC, RSM, RCS-cylinder, WR5 wedgie or LW16 lifting wedge.

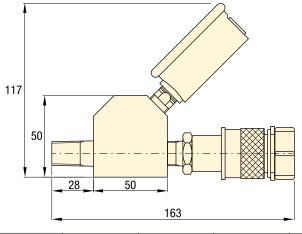
Page:

33

65

The Gauge Adaptor Assembly is the window to your system; allows easy reading of the pressure for safe operation.





Model	Gauge Port	Male End	Female End	Gauge	Range
Number	(1/4" NPTF)	(NPTF)	(3/8" NPTF)	(bar)	(psi)
GA45GC	G2535L	3⁄8" -18	CR400	0 - 700	0 - 10.000

Gauge Accessories

▼ Shown from left to right: GA3, V91, GA1, GA2, GA4, NV251, GA918



GA, NV, V Series

Maximum Operating Pressure:

700 bar

A gauge is easily installed into your hydraulic system using a gauge adaptor.



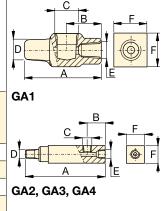


Gauge Adaptors (GA-Series)

- · For easy mounting of a pressure gauge onto your system
- Male end screws into pump or cylinder port, female end accepts hose or coupler, 3rd port is for gauge connection
- GA918 provides for swivel connection.



Model Number	Gauge Port	Male End	Female End		Dimensions (mm)								
	(NPTF)	(NPTF)	(NPTF)	Α	В	С	D	E	F				
GA1	1/2"	3/8"		71	31	½" NPTF	%" NPTF	%" NPTF	32				
GA2	1/2"	3/8"	3/8"	155	35	½" NPTF	%" NPTF	%" NPTF	32				
GA3	1/4"	3/8"	7/8	133	35	1/4" NPTF	%" NPTF	%" NPTF	32				
GA4	1/2"	1/4"		111	35	½" NPTF	1/4" NPTF	%" NPTF	32				

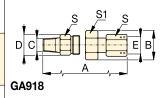




Swivel Adaptor (GA918)

· Simplifies gauge installation and reading.

,	Model Number	Dimensions (mm)							
		Α	В	С	D	E	S	S1	
	GA918	117	43	½" NPTF	28,5	½" NPTF	29	38	



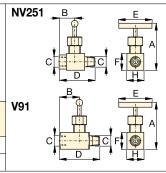


Needle Valves (V- and NV-Series)

- Both NV251 and V91 provide positive shut-off
- 316 stainless steel stem, 24 threads/in (NV251).

=	

Model	Orifice	Thread	Dimensions (mm)						
Number	(mm)	Size	Α	В	С	D	Е	F	Н
NV251	4,3	1/4" NPTF	57	29	1/4" NPTF	57	46	19	19
V91	4,8	½" NPTF	89	32	½" NPTF	64	32	37	37

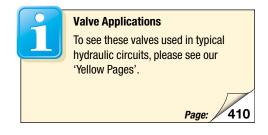


▼ From left to right: **V152, V66, V82, V161, V42, V17**



- All valves are rated for 700 bar operating pressure
- All valves feature NPTF porting to insure against leakage at rated pressure
- All valves are painted, coated, or plated for corrosion resistance
- Viton® seals (in V66NV and V152NV) for high temperature applications, nickel-plated for maximum corrosion resistance.

Your Hydraulic Control Solution



▼ The V152 pressure relief valve limits the pressure or force developed in the hydraulic system.



Valve dimensions in mm

