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SYSTEM ACCESSORIES

DURAPAC *SYSTEM ACCESSORIES* ALLOW FOR EASY CONNECTION AND ASSEMBLY OF DURAPAC HYDRAULIC TOOLS, PUMPS AND EQUIPMENT.

All items are carefully designed and selected to be compatible with Durapac 700 bar working pressure equipment. High pressure hydraulic hoses are available in many standard lengths and can be custom made to special lengths on request. Our fittings are a 700 bar design with a 4:1 safety factor and are permanently marked with part number and working pressure. In line flow control valves allow system designers to assemble a safe controlled system using needle valves, check valves and pilot operated counter balance valves. Hydraulic pressure gauges and coupling options; including screwed and snap type ensure your hydraulic system is working safely and efficiently.



DURAPAC HIGH PRESSURE HYDRAULIC FITTINGS ALLOW FOR EASY CONNECTION AND ASSEMBLY OF DURAPAC HYDRAULIC TOOLS, PUMPS AND EQUIPMENT.

All fittings are rated to 700 bar working pressure with a 4:1 safety factor and each fitting is permanently marked with its respective part number and working pressure.



THREAD SIZES

1/4" & 3/8" NPT
9/16" - 18 UNF
3/4" - 16 UNF

MAXIMUM OPERATING PRESSURE

700 - 2,800 bar

FN-1
3/8" NPT male hex nipple

FN-3
3/8" NPT male hex nipple x 80mm overall length

FE-7
3/8" NPT female/female 90° elbow

FE-9
3/8" NPT male/female 90° elbow

FT-11
3/8" NPT female/female/female tee

FS-13
3/8" NPT female hex socket

DHO-01L, DHO-05L & DHO-20L
1 - 20 L Hydraulic Oil

FC-15
3/8" NPT female four port cross

FR-16
3/8" NPT male x 1/4" NPT female reducing bush

FN-26
1/4" NPT male hex nipple

FN-27
1/4" NPT male x 3/8" NPT male hex nipple

FGA-1
3/8" NPT male x 3/8" NPT female x 1/4" NPT female gauge adaptor on angle

FGA-2
3/4"-16 UNF x 9/16"-18 UNF x 9/16"-18 UNF 2,800 bar W.P gauge adaptor. Includes connection nipples to suit pressure gauge and hand pump

FGA-18
3/8" NPT male x 3/8" NPT female x 1/4" NPT female gauge adaptor

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SYSTEM ACCESSORIES

GAUGES

PG-63

63 mm diam. 0-1,000 bar /
0-14,500 psi 1/4" NPT Male



PG-100-40K

100 mm diam. 0-2,700 bar /
0-40,000 psi 9/16"-18
UNF Female



PG-100

100 mm diam. 0-1,000 bar /
0-14,500 psi 1/4" NPT Male



PG-100-60K

100 mm diam. 0-4,000 bar /
0-60,000 psi 9/16"-18
UNF Female



PG-150

150 mm diam. 0-1,000 bar /
0-14,500 psi 1/4" NPT Male



THE **PG-SERIES** HYDRAULIC PRESSURE GAUGES ARE RECOMMENDED FOR MONITORING ALL HYDRAULIC SYSTEMS.

Models are available from 63-150 mm face diameter and feature high quality stainless steel construction. All models are liquid filled to increase longevity and are accurate to within 1% excluding model PG-63 (1.6%).

HOSES

THE **HPS-SERIES** HYDRAULIC 1/4" & 3/8" HOSES ARE A HIGH PRESSURE THERMOPLASTIC HOSE THAT EXCEEDS THE AMERICAN JACKING SPECIFICATIONS IJ100 FOR USE IN APPLICATIONS TO 700 BAR.

The hose is made up by an inner tube that is polyester elastomer and is reinforced by braids of aramid fibre plus one braid of steel wire covered with a polyurethane (anti abrasive) outer. The hose is lightweight and flexible with a tight bend radius for use on hose reels and in tight situations. 1/4" sizes are available in Red, Black and Twin (1 x Red / 1 x Black) for double acting hydraulic applications. All hoses are complete with crimp on fittings and bend restrictors. Models complete with hydraulic couplings are available (see table for details).



Model No.	Hose Size (inch)	Internal Diameter (mm)	Outside Diameter (mm)	Working Pressure		Min. Burst Pressure		Safety Factor Ratio	Temperature Range		Bend Radius (mm)	Weight (g/m)
				(bar)	(psi)	(bar)	(psi)		(min)	(max)		
HPS-06	1/4	6.6	12.7	700	10,000	2,800	40,000	4:1	-40 °C	+100 °C	35	180
HPS-10	3/8	9.8	18.7	700	10,000	2,800	40,000	4:1	-40 °C	+100 °C	90	330



HPS Model No.	Bore Size	Lengths	End Types	Colour
HPS-0601A*	1/4"	1 metre	1/4" NPT - Male thread both ends	* INSERT 'R', 'B' OR 'T' AT END OF HOSE MODEL NUMBER WHEN ORDERING TO DEFINE COLOUR CHOICE OR SINGLE/TWIN HOSE R = Red B = Black T = Twin (Red & Black) Fused
HPS-0602A*		2 metres		
HPS-0603A*		3 metres		
HPS-0604A*		4 metres		
HPS-0606A*		6 metres		
HPS-0610A*		10 metres		
HPS-0615A*		15 metres		
HPS-0620A*		20 metres		
HPS-0625A*		25 metres		
HPS-0630A*		30 metres		
HPS-0601B*		1 metre	3/8" NPT - Male thread both ends	
HPS-0602B*		2 metres		
HPS-0603B*		3 metres		
HPS-0604B*		4 metres		
HPS-0606B*		6 metres		
HPS-0610B*		10 metres		
HPS-0615B*		15 metres		
HPS-0620B*		20 metres		
HPS-0625B*		25 metres		
HPS-0630B*		30 metres		
HPS-0601C*		1 metre	CH-6 Male coupling on one end and other end 3/8" NPT Male thread	
HPS-0602C*		2 metres		
HPS-0603C*		3 metres		
HPS-0604C*		4 metres		
HPS-0606C*		6 metres		
HPS-0610C*		10 metres		
HPS-0615C*		15 metres		
HPS-0620C*		20 metres		
HPS-0625C*		25 metres		
HPS-0630C*		30 metres		
HPS-0601D*	1 metre	CH-6 Male coupling on both ends		
HPS-0602D*	2 metres			
HPS-0603D*	3 metres			
HPS-0604D*	4 metres			
HPS-0606D*	6 metres			
HPS-0610D*	10 metres			
HPS-0615D*	15 metres			
HPS-0620D*	20 metres			
HPS-0625D*	25 metres			
HPS-0630D*	30 metres			
HPS-1001BB	3/8"	1 metre	3/8" NPT Male thread	Available in Black only
HPS-1002BB		2 metres		
HPS-1003BB		3 metres		
HPS-1004BB		4 metres		
HPS-1006BB		6 metres		
HPS-1010BB		10 metres		
HPS-1015BB		15 metres		
HPS-1020BB		20 metres		
HPS-1025BB		25 metres		
HPS-1030BB		30 metres		
HPS-1001CB		1 metre	CH-6 Male coupling on one end and other end 3/8" NPT Male	
HPS-1002CB		2 metres		
HPS-1003CB		3 metres		
HPS-1004CB		4 metres		
HPS-1006CB		6 metres		
HPS-1010CB		10 metres		
HPS-1015CB		15 metres		
HPS-1020CB		20 metres		
HPS-1025CB		25 metres		
HPS-1030CB		30 metres		
HPS-1001DB		1 metre	CH-6 Male coupling on both ends	
HPS-1002DB		2 metres		
HPS-1003DB		3 metres		
HPS-1004DB		4 metres		
HPS-1006DB		6 metres		
HPS-1010DB		10 metres		
HPS-1015DB		15 metres		
HPS-1020DB		20 metres		
HPS-1025DB		25 metres		
HPS-1030DB		30 metres		



THREAD SIZES

1/4" & 3/8" NPT
9/16" - 18 UNF

MAXIMUM OPERATING
PRESSURE

700 - 4,000 bar



Did you know...

When using long hose lengths it may be necessary to refill the pump reservoir to allow for the oil that has filled the hose. Allow the following volumes per metre of hose length:
HPS-06: 34.21 cc/m
HPS-10: 75.43 cc/m

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SYSTEM ACCESSORIES

VCB-1

Load lowering counter balance valve for smooth controlled lifting and lowering. Pilot pressure adjusting range 50-350 bar. Ports 3/8" BSP parallel female (pilot port 1/4" BSP parallel female). Supplied with 2 each 3/8" BSPP x 3/8" NPT male nipples.



DURAPAC IN LINE FLOW CONTROL VALVES ALLOW THE SYSTEM DESIGNER GREAT FLEXIBILITY AND CONTROL.

Available options include a needle type flow control valve, two and four outlet needle valve blocks and check valve with manual by-pass. The VCB-1 load lowering counter balance valve offers smooth, chatter free lifting and lowering when used with double acting cylinders. It has a pilot pressure adjusting range of 50-350 bar and can be mechanically locked once set.

VNV-1

3/8" NPT female needle valve



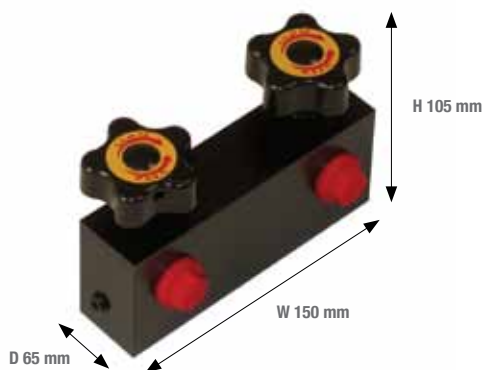
VCV-66

3/8" NPT female load lowering check valve with manual bypass



VMN-2

2 way aluminium bodied manifold with needle valves - 2 x 3/8" NPT female outlet ports, 1 x 3/8" NPT female inlet port (centrally located opposite to the 2 outlet ports)



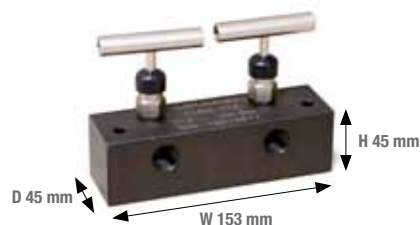
VMN-4

4 way aluminium bodied manifold with needle valves - 4 x 3/8" NPT female outlet ports, 1 x 3/8" NPT female inlet port (centrally located opposite to the 4 outlet ports)



VMN-2M

2 way steel bodied manifold with needle valves - 2 x 3/8" NPT female outlet ports, 1 x 3/8" NPT female inlet port (centrally located opposite to the 2 outlet ports)



VMN-4M

4 way steel bodied manifold with needle valves - 4 x 3/8" NPT female outlet ports, 1 x 3/8" NPT female inlet port (centrally located opposite to the 4 outlet ports)



DURAPAC HYDRAULIC COUPLINGS OFFER THE USER VARIOUS OPTIONS FOR EASY ASSEMBLY AND CONNECTION OF HYDRAULIC SYSTEMS AND TOOLS.

The CR-6 female high flow screw coupling with dust cap is standard supply on all Durapac cylinders. Other options available include 1/8" and 1/4" screw style couplings and snap together style where no oil spill on connection or disconnection is desirable. The GCS-210 is a gauge coupling set and is ideal for use when the pressure gauge needs to be removed from a system for protection and transportation.



THREAD SIZES

1/4", 1/8" & 3/8" NPT
1/4" & 3/8" BSPP

MAXIMUM OPERATING PRESSURE

700 bar

CH-2

1/8" male coupling with dust cap* (1/8" NPT male)

CR-2

1/8" female coupling with dust cap* (1/8" NPT male)

CS-2

Coupling set with dust caps* includes CH-2 and CR-2

CH-4

1/4" male coupling with dust cap* (1/4" NPT female)

CR-4

1/4" female coupling with dust cap* (1/4" NPT male)

CS-4

Coupling set with dust caps* includes CH-4 and CR-4

CH-6

3/8" male coupling with dust cap* (3/8" NPT female)

CR-6

3/8" female coupling with dust cap* (3/8" NPT male)

CS-6

3/8" coupling set with dust caps includes CH-6 and CR-6

UDC-1

Universal dust cap to suit 3/8" male and female couplings

CFH-6

Male half snap coupling with dust cap (3/8" NPT female)

CFR-6

Female half snap coupling with dust cap (3/8" NPT female)

CFS-6

Snap coupling set with dust caps includes CFH-6 and CFR-6

GCS-210

Gauge coupling set with dust caps. Compact pin design

1/4" NPT male

1/4" NPT female

* Dust cap not shown