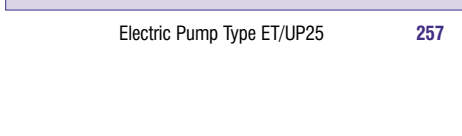
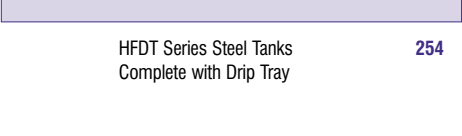


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		<b>Top of the Range DIN24339 Heavy Duty</b>			
		<b>• High Specification Tanks</b>			

**For Technical Data please see Section 9**

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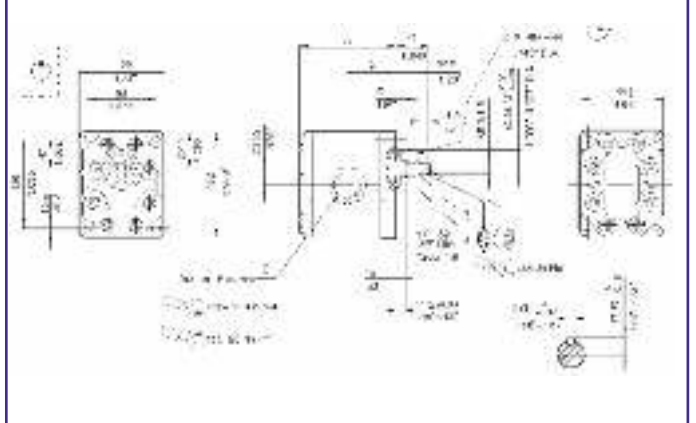
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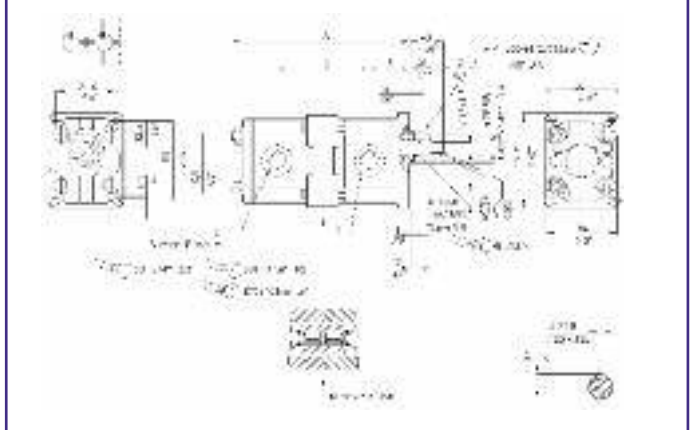
Type	Displacement		Dimensions				Clockwise Rotation		Anti-Clockwise Rotation			Max Pressure		
	cm <sup>3</sup> /rev	A mm	A inch	B mm	B inch	G BSSP	G BSSP	Type	Part Number	Type	Part Number	Cont.	Int.	Peak
AP200/4.5	4.5	88	3.46	40.3	1.59	3/8"	3/8"	AP200/4.5D	<b>200.1021.132.04</b>	AP200/4.5S	<b>200.1021.133.03</b>	220	250	280
AP300/27	27	126.0	4.96	64.0	2.51	1	3/4"	AP300/27D	<b>200.1031.132.03</b>	AP300/27S	<b>200.1031.133.07</b>	220	250	280
AP300/31	31	129.0	5.07	65.0	2.55	1	3/4"	AP300/31D	<b>200.1032.132.05</b>	AP300/31S	<b>200.1032.133.03</b>	220	250	280
AP300/38	38	133.5	5.25	67.5	2.65	1	3/4"	AP300/38D	<b>200.1033.132.02</b>	AP300/38S	<b>200.1033.133.03</b>	220	250	280
AP300/45	45	138.5	5.43	70.0	2.75	1	3/4"	AP300/45D	<b>200.1034.132.03</b>	AP300/45S	<b>200.1034.133.03</b>	200	230	260
AP300/53	63	143.0	5.62	72.5	2.85	1	3/4"	AP300/53D	<b>200.1035.132.04</b>	AP300/53S	<b>200.1035.133.03</b>	200	230	260
AP300/63	63	150.0	5.90	75.5	2.97	1	3/4"	AP300/63D	<b>200.1036.132.01</b>	AP300/63S	<b>200.1036.133.03</b>	180	210	240
AP300/75	75	157.5	6.20	79.5	3.13	1	3/4"	AP300/75D	<b>200.1037.132.02</b>	AP300/75S	<b>200.1037.133.03</b>	170	190	220
AP300/93	93	169.0	6.65	85.5	3.36	1	3/4"	AP300/93D	<b>200.1038.132.02</b>	AP300/93S	<b>200.1038.133.04</b>	150	170	200

Displacement cm <sup>3</sup> /rev	Dimensions					
	A mm	A inch	B mm	B inch	C mm	C inch
4.5+4.5	175.5	7	40.5	1.6	90.5	3.56
6.5+4.5	175.5	7	40.5	1.6	90.5	3.56
6.5+6.5	175.5	7	40.5	1.6	90.5	3.56
8.5+4.5	175.5	7	40.5	1.6	90.5	3.56
8.5+6.5	175.5	7	40.5	1.6	90.5	3.56
8.5+8.5	175.5	7	40.5	1.6	90.5	3.56
11+4.5	191.5	7.5	48.5	2	98.5	3.88
11+6.5	191.5	7.5	48.5	2	98.5	3.88
11+8.5	191.5	7.5	48.5	2	98.5	3.88
11+11	211.5	8.3	48.5	2	106.5	4.2
15+4.5	191.5	7.5	48.5	2	98.5	3.88
15+6.5	191.5	7.5	48.5	2	98.5	3.88
15+8.5	191.5	7.5	48.5	2	98.5	3.88
15+11	211.5	8.3	48.5	2	106.5	4.2
15+15	211.5	8.3	48.5	2	106.5	4.2
19+4.5	203.5	8	54.5	2.1	104.5	4
19+6.5	203.5	8	54.5	2.1	104.5	4
19+8.5	203.5	8	54.5	2.1	104.5	4
19+11	223.5	8.8	54.5	2.1	112.5	4.43
19+15	223.5	8.8	54.5	2.1	112.5	4.43
19+19	233.5	9.2	54.5	2.1	118.5	4.7
22+4.5	208	8.2	56.5	2.3	107	4.2
22+6.5	208	8.2	56.5	2.3	107	4.2
22+8.5	208	8.2	56.5	2.3	107	4.2
22+11	228	9	56.5	2.3	115	4.5
22+15	228	9	56.5	2.3	115	4.5
22+19	238	9.4	56.5	2.3	121	4.7
22+22	243	9.5	56.5	2.3	123	4.8
26+4.5	208	8.2	56.5	2.3	107	4.2
26+6.5	208	8.2	56.5	2.3	107	4.2
26+8.5	208	8.2	56.5	2.3	107	4.2
26+11	228	9	56.5	2.3	115	4.5
26+15	228	9	56.5	2.3	115	4.5
26+19	238	9.4	56.5	2.3	121	4.7
26+22	243	9.5	56.5	2.3	123	4.8
26+26	243	9.5	56.5	2.3	123	4.8

### 818 Series



### Tandem Pumps



### Port Sizes

Displacement cm <sup>3</sup> /rev	Suction G BSPP	Pressure G BSPP
4.5	3/8"	3/8"
6.5	3/8"	3/8"
8.5	3/8"	3/8"
11	1/2"	3/8"

Displacement cm <sup>3</sup> /rev	Suction G BSPP	Pressure G BSPP
15	1/2"	3/8"
19	3/4"	1/2"
22	3/4"	1/2"
26	3/4"	1/2"

## High Pressure Internal Gear Pumps Type QX

The QX pumps internal gear pumps, have proven themselves in thirty years of service around the world. The simple and tough construction guarantees a long service life without extensive maintenance activities. Tandem and multiple pumps are available in more than 1000 variations.

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### ADVANTAGES

- High pressures
- Low noise level
- Long service life
- Negligible flow and pressure pulsations
- Insensitive to contamination of the fluid

### OPTIONS / ACCESSORIES

- Tandem and multiple pumps
- Mounting valves
- Pipe flanges

### Technical Data

	Unit	Value
Continuous Pressure Max.	bar	25 - 250
Peak Pressure	bar	300
Effective Displacement	cm <sup>3</sup> /rev	5 - 500
Speed Max.	rpm	5000
Viscosity Range	mm <sup>2</sup> /s	0.8 - 10
Volumetric Efficiency	%	<95

### Frame Size

	Effective Displacement	Max. Speed rpm
QX2..	5 - 16 cc/rev	5000
QX3..	10 - 32 cc/rev	4300
QX4..	20 - 63 cc/rev	3600
QX5..	40 - 125 cc/rev	3000
QX6..	80 - 250 cc/rev	2300
QX8..	160 - 500 cc/rev	1800

### APPLICATIONS

Hydraulic presses • Machine tools • Waste compactors • Plastics machinery • Diecasting machines • Lift/ elevator drives  
Hydraulic power units • Lift trucks

## Internal Gear Pumps Type QXV for Low Viscosity Fluids

The QXV is an internal gear pump for low viscosity. It can develop pressures of 300 bar with high efficiency at viscosities of around 1 mm<sup>2</sup>/s. The QXV is being used with great success to pump aviation jet fuels, paraffin oil/kerosene, brake fluids, Pentosin and HFA fluids.



### ADVANTAGES

- Very low noise levels
- Long service life
- Low pump wear
- Low susceptibility to cavitation
- Good emergency running properties

### Technical Data

	Unit	Value
Continuous pressure	bar	25 - 250
Peak pressure	bar	300
Effective displacement	cm <sup>3</sup> /rev	5 - 500
Speed max.	rpm	3600
Viscosity range	mm <sup>2</sup> /s	0.8 - 10

### APPLICATIONS

Test rigs for testing Jet A1/ fuel controllers for aircraft turbines • Test rigs for diesel injection nozzles  
Rolling mills • Fuel pumps for gasturbines • Welding machines

## Internal Gear Motor Type QXM

The QXM drive unit can be used in open- and closed-loop hydrostatic drives, and can operate both as a pump and as a motor. The QXM works as a pump to lift the load and it can recover energy when the load is being lowered. Used as a bi-directional pump / motor (four-quadrant operation), the unit can control the complete motion cycle of a cylinder.



### ADVANTAGES

- Very low noise levels
- Negligible pressure pulsations
- Long service life
- Suitable for special fluids
- 4-quadrant (fully bi-directional pump / motor) or 2-quadrant operation is possible
- Low susceptibility to cavitation

### Technical Data

	Unit	Value
Continuous pressure max.	bar	320
Peak Pressure	bar	400
Effective displacement	cm <sup>3</sup> /rev	5 - 250
Speed max.	rpm	6000
Speed min.	rpm	100
Viscosity range	mm <sup>2</sup> /s	10 - 300

### APPLICATIONS

Winches • Fork lift for high rack facility • Lift hydraulics with energy recovering  
Fork lift trucks with energy recovering Lifting Platforms • Drive for roller coasters



Gerotor motors are slow speed / high torque motors. The power element of this motor is the power unit, comprising rotor, outer ring (stator) and 7 cylinders. (BMP has 6 cylinders.) The patented rotor profile prevents direct leakage between the pressure chambers, resulting in negligible internal leakage and high volumetric efficiency.

#### ADVANTAGES

Without drain line  
Integrated speed sensor  
Integrated valves  
Parking brake or wheel hub

#### Technical Data

Output torques  
Displacements  
Working pressures  
Viscosity

Unit	Value
Nm	115 - 3900
cm <sup>3</sup> /U	52 - 2095
bar	315
mm <sup>2</sup> /s	10 - 300



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#### APPLICATIONS

Ride-on mowers • Sweepers • Lifting devices • Winches • Refuse collection vehicles  
Recycling machines • Road finisher • Harvesters • Concrete pumps • Forage wagons

### Radial Piston Motors Type BB

#### Technical Data

Part Number	Operating Pressure bar	Peak Pressure bar	Consumption cm <sup>3</sup> /rev	Speed rpm	Torque Nm
<b>BB250</b>	300	350	250	400	1120
<b>BB315</b>	300	350	315	320	1415
<b>BB400</b>	300	350	400	250	1790
<b>BB500</b>	300	350	500	300	2245
<b>BB630</b>	300	350	630	240	2825
<b>BB800</b>	300	350	800	185	3590
<b>BB1000</b>	300	350	1000	200	4490
<b>BB1250</b>	300	350	1250	160	5610
<b>BB1600</b>	300	350	1600	125	7180
<b>BB2000</b>	400	450	2000	175	11950
<b>BB2500</b>	400	450	2500	140	14940
<b>BB3150</b>	400	450	3150	110	18820
<b>BB4000</b>	400	450	4000	125	23900
<b>BB5000</b>	400	450	5000	100	29800
<b>BB6300</b>	400	450	6300	80	37600

Viscosity range: 20 to 50 mm<sup>2</sup>/s

These motors have been specially developed for applications requiring high torque, high efficiency and smooth running at low speeds. These wheel hub motors are especially suitable for hydrostatic power transmission because of their compact design and small size. They are of course also suitable for applications in industry.

#### ADVANTAGES

High starting torques of 84% or more  
Smooth running even at very low speeds  
Can be reversed under load  
Mechanical freewheel, hydraulic freewheel and two-speed motors are available  
Suitable for direct wheel-drive



#### APPLICATIONS

Fork lift trucks • Auxiliary power transmissions • Agricultural loaders • Combine harvesters • Wheel loaders • Drilling rig drives  
Conveyor drives • Road sweepers • Asphalt pavers • Heavy-load transporters • Road rollers • Winches • Self-propelled crop harvesters

### Internal Gear Flow Dividers Type QXT

Series QXT internal flow dividers divide a flow into as many as four portions. The division ratios are constant and are unaffected by the loads at the actuators. They can be used, for example, to provide synchronised movement of unequally loaded cylinders. Several hydraulic motors can be driven at the same speed, irrespective of their external loads.

#### ADVANTAGES

High division accuracy  
A very wide range of division ratios is available  
The inlet flow can be divided into as many as four portions  
High efficiency  
Long service life  
Also suitable for special fluids

#### Technical Data

Outlet displacement  
Cont./ Intern. pressure  
Speed  
Maximum outlets available  
Viscosity range  
Division accuracy

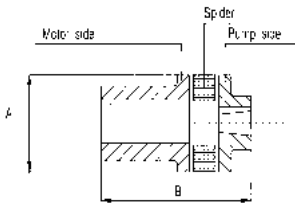
Unit	Value
cm <sup>3</sup> /rev	5 - 250
rpm	250 - 300
	400 - 6300
	2, 3 or 4 sections
mm <sup>2</sup> /s	10 - 300
%	> 98



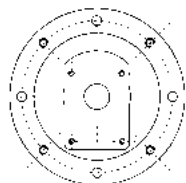
#### APPLICATIONS

Air conditions • Track laying machinery • Waste compactors • Hydraulic presses

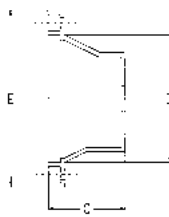
## Bell Housing & Drive Couplings



DRIVE COUPLING



BELL HOUSING



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Pump Type	Electric Motor B5 - 4 Pole (Kw)	Motor Frame Size	Bell Housing Part Number	C (mm)	D (mm)	Motor Flange DIA. 'E' (mm)	Drive Coupling Part Number	Motor Side DIA. 'A'	Overall Length B (mm)
AP100	0.37	71	<b>BH161/02</b>	70	110	160	<b>HC1140 ER100 HC101A</b>	42	65
AP100	0.55/0.75	80	<b>BH202/02</b>	98	136	200	<b>HC2190 ER200 HC201A</b>	55	90
AP100	1.1/1.5	90	<b>BH202/02</b>	98	136	200	<b>HC2240 ER200 HC201A</b>	55	93
AP100	2.2/3/4	100/112	<b>BH252/02</b>	110	182	250	<b>HC2280 ER200 HC201A</b>	55	105
AP200	0.55/0.75	80	<b>BH202/04</b>	98	136	200	<b>HC3190 ER300 HC302AB</b>	65	90
AP200	1.1/1.5	90	<b>BH202/04</b>	98	136	200	<b>HC3240 ER300 HC302AB</b>	65	90
AP200	2.2/3/4	100/112	<b>BH252/04</b>	110	182	250	<b>HC3280 ER300 HC302AB</b>	65	102
AP200	5.5/7.5	132	<b>BH303/04</b>	139	234	300	<b>HC3380 ER300 HC302AB</b>	65	131
AP200	11/15	160	<b>B350A/F24A033/04</b>	169	260	350	<b>HC5380 ER500 HC502AB</b>	95	161
AP200	18.5/22	180	<b>B350A/F24A033/04</b>	169	260	350	<b>HC5480 ER500 HC502AB</b>	95	161
AP300	2.2/3/4	100/112	<b>BH252/17/FR10C/06/AR3/06</b>	110	182	250	<b>HC3280 ER300 HC302AB</b>	65	118
AP300	5.5/7.5	132	<b>BH303C/05+AR5/06</b>	139	234	300	<b>HC5380 ER500 HC503A</b>	95	131
AP300	11/15	160	<b>B350A/F24A033/06</b>	169	260	350	<b>HC5420 ER500 HC503A</b>	95	161
AP300	18.5/22	180	<b>B350A/F24A033/06</b>	169	260	350	<b>HC5480 ER500 HC503A</b>	95	161
AP300	30	200	<b>B400A/F24A033/06</b>	173	295	400	<b>HC7550 ER700 HC703A</b>	120	165
AP300	37/45	225	<b>B450A/F24A033/06</b>	203	345	450	<b>HC7600 ER700 HC703A</b>	120	195

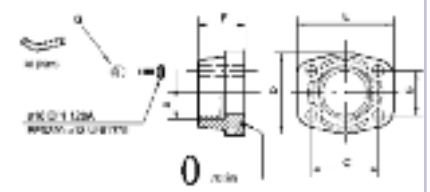
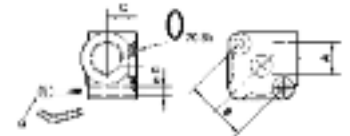
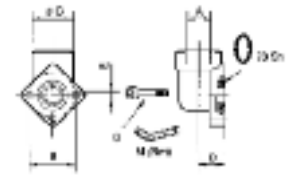
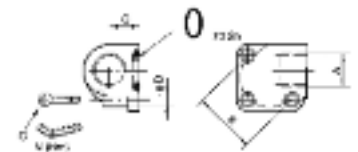
## Flange Connectors

Type	Order code	A	B		C		D		M (Nm)	O-Ring	G (DIN912)
			mm	inch	mm	inch	mm	inch			
RF197	200.7702.3001.0	1/2" BSP	90	1.18	16	.63	6.5	.25	10+1	121	M6x1x30
RF198	200.7702.3001.0	3/8" BSP									

Type	Order code	A	B		C		D		E		M (Nm)	O-Ring	G (DIN912)
			mm	inch	mm	inch	mm	inch	mm	inch			
RF223	200.7702.3006.0	1/2" BSP	30	1.18	30	1.18	17.5	63	6.6	25	10+1	121	M6x1x18
RF228	200.7702.2004.0	3/8" BSP											
RF225	200.7702.4003.0	3/4" BSP											
RF246	200.7702.3007.0	1/2" BSP	40	1.57	40	1.57	21	1.02	9.5	33	20+2	132	M8x1.25x20
RF233	200.7702.5008.0	1" BSP											
RF251	200.7702.4000.0	3/4" BSP	51	2	48	2	27	.98	10.5	41	30+5	4118 3125	M10x1.5x25
RF272	200.7702.5004.0	1" BSP											
RF256	200.7702.3007.0	1 1/4" BSP	62	2.44	60	2.36	34.5	1.38	10.5	41	50+2	4150	M12x1.75x30 M12x1.75x35

Type	Order code	A	B		C		D		M (Nm)	O-Ring	G (DIN912)
			mm	inch	mm	inch	mm	inch			
RF262	200.7702.2007.0	3/8" BSP	35	1.37	18.5	.78	6.5	.25	10+1	3075	M6x1x40
RF216	200.7702.3004.0	1/2" BSP									
RF217	200.7702.3005.0	1/2" BSP									
RF220	200.7702.4002.0	3/4" BSP	40	1.57	21.5	.85				132	

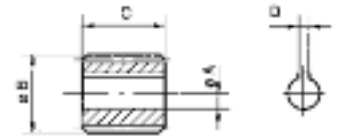
Type	Order code	A	B		C		D		E		F		M (Nm)	O-Ring	G (DIN912)
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
RF5209	200.7702.4006.0	3/4" BSP	32.2	.87	47.6	1.87	45	1.89	60	2.36	30	1.42	4100	3/8"16UNF	
RF8248	200.7702.5003.0	1" BSP	36.2	1.03	52.4	2.08	52	2.04	70	2.75	38	1.50	4121	3/8"16UNC	
RF5275	200.7702.9917.0	1 1/4" BSP	30.2	1.19	55.7	2.21	60	2.68	79	3.11	41	1.61	4150	7/16"14UNC	
RF8289	200.7702.9905.0	1 1/2" BSP	35.7	1.40	70	2.69	75	2.90	98	3.68	44	1.73	50+2	1/2"18UNC	



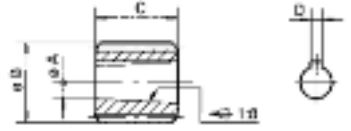


MATERIAL: UNI5331 16 CrNi4Pb Hardness 58 - 60 HRC (\*) UNI5332 38 NiCrMo4Pb R =950 - 1050 N/mm<sup>2</sup>

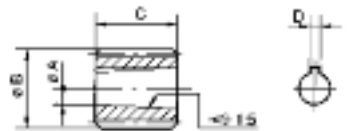
Type	Pump group	Order code	Spine profile DIN 5482	A		B		C		D		n. of teeth
				mm	inch	mm	inch	mm	inch	mm	inch	
GSH-06	AP05	200.5314.20091	20X17	7	.27	18.6	.76	9	.35	2	.08	12



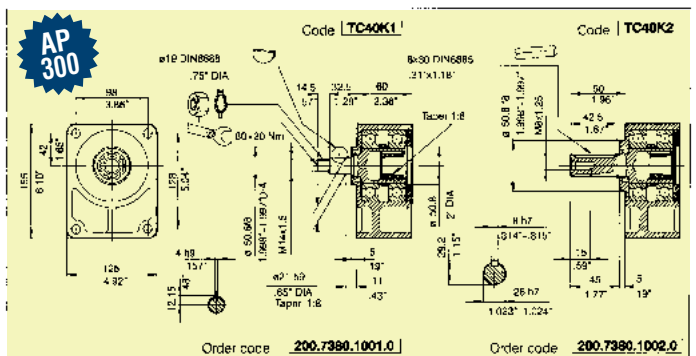
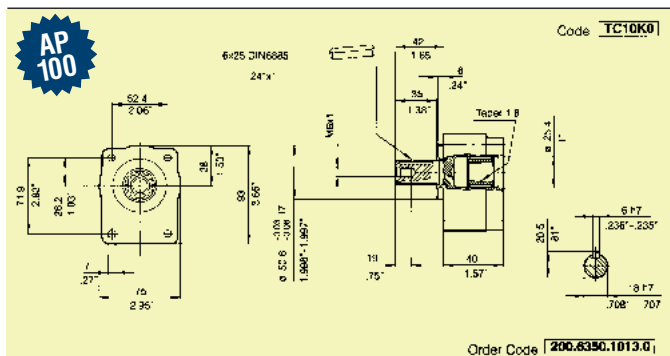
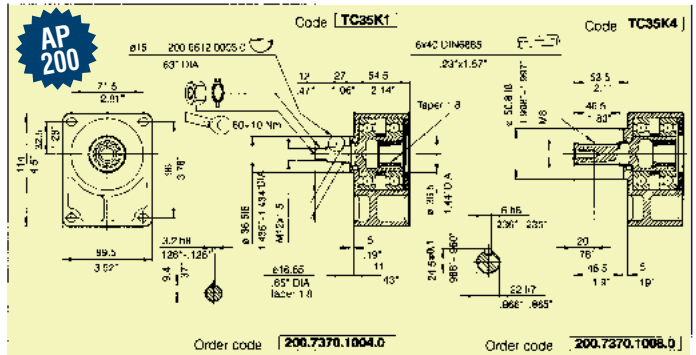
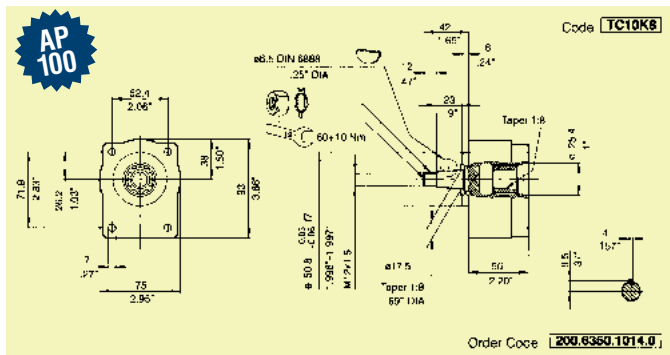
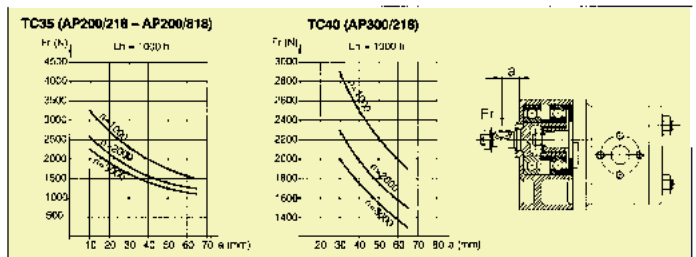
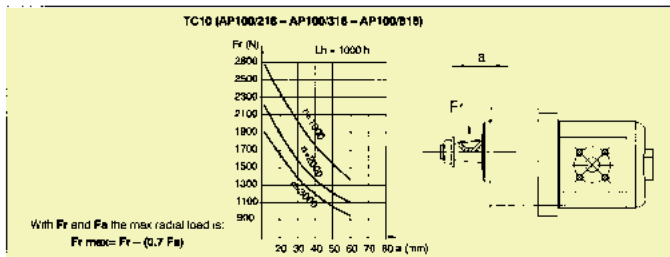
Type	Pump group	Order code	Spine profile DIN 5482	A		B		C		D		n. of teeth
				mm	inch	mm	inch	mm	inch	mm	inch	
GSH-1-12	AP100	200.5315.30001	20X17	6	.31	19.5	.77	14.5	.57	2.4	.09	12
GSH-1-14	AP100	200.5315.30002	25x22			24.5	.96	22	.87	3.2	.12	14
GSH-2-14*	AP200	200.5315.40001	25x22	14.2	.56	27.5	1.06					20
GSH-2-15	AP200	200.5315.40002	28x25			34.5	1.36	26	1.02	4	.16	
GSH-2-18	AP200	200.5315.40003	35x31	10.7	.73	39.5	1.55					20
GSH-3-18*	AP300	200.5315.50001	35x31			10.7	.73	39.5	1.55	20	.79	
GSH-3-20	AP300	200.5315.50002	40x38	10.7	.73			39.5	1.55			20



Type	Pump group	Order code	Spine profile DIN 5482	A		B		C		D		n. of teeth
				mm	inch	mm	inch	mm	inch	mm	inch	
GSH-1B-12	AP100	200.5314.30001	20X17	7.6	.3	19.5	.77	12	.47	2	.08	12
GSH-2B-14*	AP200	200.5314.40001	25x22	13	.5	24.5	.96	20	.79	3	.12	14
GSH-2B-16	AP200	200.5314.40002	28x25			27.5	1.08					18
GSH-2B-18	AP200	200.5314.40003	35x31	13	.5	34.5	1.36	20	.79	3	.12	



### Independent Supports

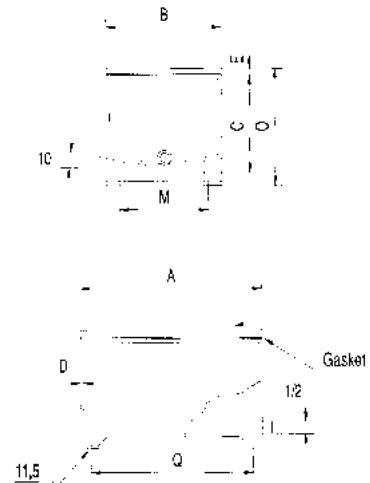


## Hydraulic Tanks

12 Litres – 30,000 Litres • Fully Machined  
Customer's drawings accepted • Designed to your requirements

### HF Series Steel Tanks

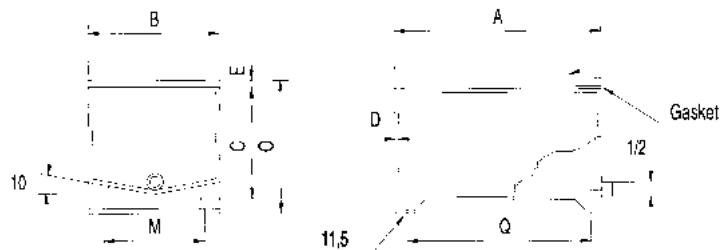
- Constructed in Steel Plate
- Oil and Rust Proof Pre-Painted
- Gasket and Drain Plug supplied
- 12 Litres – 160 Litres



Part Number	Capacity Litres	A	B	C	D	E	M	O	Q	Cover Fix.
<b>HF12</b>	13	335	270	235	1.5	4	208	290	286	6xM8
<b>HF16</b>	20	410	325	250	1.5	4	270	305	364	6xM8
<b>HF30</b>	30	470	365	280	1.5	4	312	335	428	6xM8
<b>HF55</b>	55	600	470	310	2	4	401	365	548	6xM8
<b>HF75</b>	72	600	470	400	2	4	401	455	548	10xM8
<b>HF100</b>	98	675	520	450	3.5	5	455	505	625	10xM8
<b>HF180</b>	160	805	620	500	3.5	5	555	555	755	10xM8

### HFDT Series Steel Tanks Complete with Drip Tray

- Constructed in Steel Plate
- Oil and Rust Proof Pre-Painted
- Gasket and Drain Plug supplied
- 13 Litres – 160 Litres



Part Number	Capacity Litres	A	B	C	D	E	M	O	Q	Cover Fix.
<b>HFDT12</b>	13	339	274	235	1.5	10	208	290	286	6xM8
<b>HFDT16</b>	20	414	329	250	1.5	10	270	305	364	6xM8
<b>HFDT30</b>	30	474	379	280	1.5	10	312	335	428	6xM8
<b>HFDT55</b>	55	604	474	310	2	10	401	365	548	6xM8
<b>HFDT75</b>	72	604	474	400	2	10	401	455	548	10xM8
<b>HFDT100</b>	98	679	524	450	2.5	10	455	505	625	10xM8
<b>HFDT180</b>	160	809	624	500	2.5	10	555	555	725	10xM8

### Inspection Covers

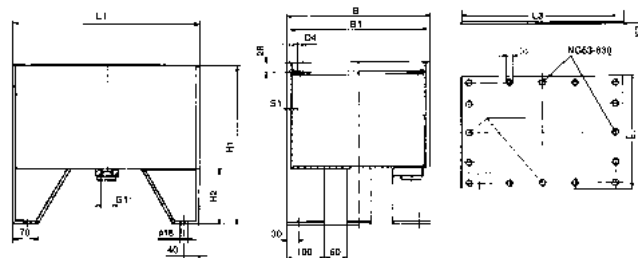
Made of die cast aluminium alloy • can be pre-drilled for mounting of level gauges  
supplied with gasket

Part Number	Diameter	No. of Mounting Holes	Size of Mounting Holes (mm)
<b>SI275</b>	275MM	6	9
<b>SI400</b>	400MM	8	9
<b>SE350</b>	350MM	4	11.5
<b>SE475</b>	475MM	6	11.5



### Top Quality - Top of the Range DIN24339 Heavy Duty - High Specification Tanks

- 200 – 20,000 Litres Capacity
- Constructed in Steel Plate
- Oil and Rust Proof
- Gasket and Drain Plug Supplied



Part Number	Capacity Litres	Weight kg	L1	A	B1	H1	H2	D4	S1	L3	B2	D5	S2
<b>HFSS200</b>	200	98	900	654	640	560	150	M10	4	888	628	12	6
<b>HFSS250</b>	250	110	1010	704	690	580	150	M10	4	998	678	12	7
<b>HFSS300</b>	300	150	1150	714	700	580	150	M10	4	1138	688	12	7
<b>HFSS400</b>	400	190	1514	749	735	580	150	M10	4	1500	720	14	8
<b>HFSS630</b>	630	285	1514	959	945	770	250	M10	4	1500	930	14	10
<b>HFSS800</b>	800	350	2014	914	900	770	250	M12	5	2000	880	14	10
<b>HFSS1000</b>	1000	420	2014	1079	1065	800	250	M12	5	2000	1045	14	10
<b>HFSS1250</b>	1250	540	2014	1349	1335	800	250	M12	5	2000	1315	14	10
<b>HFSS1500</b>	1500	650	2014	1444	1430	850	250	M12	5	2000	1410	18	10
<b>HFSS2000</b>	2000	800	2314	1564	1550	900	250	M12	6	2296	1528	18	10
<b>HFSS4000</b>	4000	TBA											
<b>HFSS6000</b>	6000	TBA											
<b>HFSS8000</b>	8000	TBA											
<b>HFSS10000</b>	10000	TBA											
<b>HFSS20000</b>	20000	TBA											

DIMENSIONS TO YOUR DRAWINGS AND STANDARD SPECIFICATIONS

1.9

### Tank Heaters - Selection Programme



#### Screwed Heaters

- Flange Heaters
- Horizontal Mounting – Protection IP65
- Horizontal Mounting with Tube Insert with Integrated Regulator – Protection IP54 (Internal Regulation) Protection IP30 (External Regulation)
- Range Capacity 0.5 – 5KW
- Depth Available 200mm up to 2000mm
- Voltages Available 220 V/AC 240 V/AC, 380 VAC-415 VAC
- Type of Fitting – Threaded 1 1/2" BSP OR 2" BSP

Quantity	Power Requirement (Kw)
Voltage V/AC	Thermostat 0-85 °C YES NO
System Protecting	
Immersion Tube Length or Fitting Length Required	mm
Thread Size for Fitting (1 1/2" BSP or 2" BSP)	
Ambient Temperature °C	Working Temperature °C
Surface charge	Watts per Square CM
Heating Time	Minutes

### Heavy Duty Industrial Sleeve Type Industrial Couplings

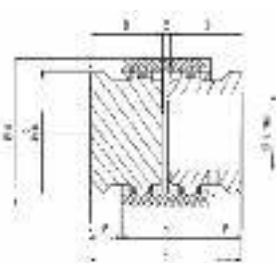
Two Crowned tooth hubs engaged a sleeve permitting easy assembly, compensation of axial and angular misalignment. No Maintenance or lubrication required.

#### Two options available:

- Quality steel hubs with nylon sleeve for general industrial applications, waterpumps
- AISI 316 Stainless steel hubs with nylon/teflon sleeve for severe chemical applications (petrochemical), food industries, etc

Working temperature -25 TO +90°C

Fully interchangeable with european manufacturers - Please ask your Pirtek centre for details.



Part Number	Rating Kw	A	B	C	D	E	F	H	L Max	Radial	Axial	Pilot Bore Size mm
<b>THC 4/14</b>	0.12KW - 0.37KW	40	23	50	23	4	6.5	37	14	+/- 1	+/- 1°	10
<b>THC6/32</b>	0.75KW - 4KW	66	53	84	40	4	19	46	32	+/- 1	+/- 1°	10
<b>THC 8/42</b>	5.5KW - 22KW	83	68	84	40	4	18	48	42	+/- 1	+/- 1°	10
<b>THC 17/90</b>	18.5KW - 110KW	175	142	186	90	3	46.5	90	90	+/- 1	+/- 1°	25

## Power Units Type UP100

Simple stack type construction with a small number of components means that the units can be quickly and easily assembled.

1.9



### Electric Motors

Voltage in v	12	12	24	24	48
Power in Kw	0.82	1.2	2.5	3	2

Voltage in Kw	0.25	0.37	0.55	0.75	1.1	1.5	2.2
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Power in Kw	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4
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### Gear Pumps Series AP100

Displacement in cc/rev	1.2	1.7	2.5	3.5	4.3	5	6.5	7.8	10
Max Pressure	210			210			190	180	150

### Oil Tank

	Capacity in Litres							
Plastic	5	7	8	10	12	15	18	
Steel	1.5	2.5	3.5	6	8	10	12	14

### HOUSING

- Direct threaded connections
- Arrangement for manifolds
- Arrangement for valves

### CARTRIDGE VALVES

Standard Cavity: 3/4" UNF and 7/8" UNF

### CONTROL VALVES

- Check valves
- Pressure relief valves
- Manual over-ride valves
- Pilot and direct acting directional valves
- Flow control valves, pre-set or adjustable
- Lever valves
- Lever valves with microswitch

### SOLENOID VALVES

- Direct or pilot operated
- Normally open or closed

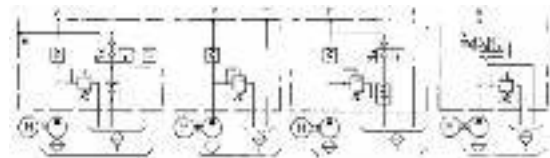
### MODULE CONTROLS

Single or section manifolds for cartridge or CETOP solenoid valves:

- Parallel or series circuits
- Manifold for valves HDS11
- Customer specific blocks

### EMERGENCY HAND PUMPS

Examples of some Feasible Hydraulic Circuits



**BUILD YOUR OWN POWER UNIT FROM OUR QUICK BUILD PROGRAMME, OR WE CAN SUPPLY THE COMPONENTS.**

Part No	Pump	Part No	Tank	Part No	Electric Motor	Part No	Description	Part No	Description	Part No
UP100KH	1.2cc/rev	1.2pum	1.5 Litre Horizontal	HF1.5H	Complete with Drive Coupling and Flanges		Return Filter with Visual Indicator 25 Micron	RF	P and T Ported only	PT
	1.7cc/rev	1.7pum	2.5 Litre Horizontal	HF2.5H	0.25RW 415V 50HZ 3PH	0.253PH	Pressure Filter with Visual Indicator 10 Micron	PF	1 Station NG6 Manifold	1NG6
	2.5cc/rev	2.5pum	5 Litre Horizontal	HF5H	0.37RW 415V 50HZ 3PH	0.373PH	Pressure Gauge + Isolator	PGI	2 Station NG6 Manifold	2NG6
	3.5cc/rev	3.5pum	5 Litre Vertical	HF5V	0.55RW 415V 50HZ 3PH	0.553PH	Level Gauge c/w Thermometer	LGT	3 Station NG6 Manifold	3NG6
	4.3cc/rev	4.3pum	8 Litre Horizontal	HF8H	0.75RW 415V 50HZ 3PH	0.753PH	Lockable Filler Breather	LFB2	One Single Acting NG6	1SANG6
	4.3cc/rev	5pum	8 Litre Vertical	HF8V	1.1RW 415V 50HZ 3PH	1.13PH	Anti Splash Filler Breather	ASB	One Double Acting NG6	1DANG6
	6.5cc/rev	6.5pum	10 Litre Horizontal	HF10H	1.5RW 415V 50HZ 3PH	1.53PH	Air Breather	AB	One Bank Manual	1BM
	8cc/rev	8pum	13 Litre Vertical	HF13V*	2.2RW 415V 50HZ 3PH	2.23PH	None Required	XXX	TWO Bank Manual	2BM
	10cc/rev	10pum	15 Litre Vertical	HF15V	3.4RW 15V 50HZ 3PH	3.3PH			Three Bank Manual	3BM
			20 Litre Vertical	HF20V*	4RW 415V 50HZ 3PH	4.3PH			Four Bank Manual	4BM
			18 Litre Horizontal	HF18H	5.5RW 415V 50HZ 3PH	5.53PH			No Extras Required	XXX
			30 Litre Vertical	HF30V*	2KW 12VDC c/w Relay	212VDC			If adding NG6 manifold on 15L tank and above an extra manifold is required	4210
			55 Litre Vertical	HF55V*	2.5KW 24VDC c/w Relay	2.524VDC				
			75 Litre Vertical	HF75V*	No Motor, just Flange and Coupling	XXFC				
			100 Litre Vertical	HF100V*						
			160 Litre Vertical	HF160V*						

\* Denotes Heavy Duty Steel Tank with Removeable Lid.

For 240V 50HZ 4 Pole add 15%  
For all other voltages  
Please ask for a quote.



**QUICK BUILD ORDER EXAMPLE**

HOUSING UP100KH	PUMP 1.2CC/REV	TANK 10 LITRE HORIZONTAL HF10H	ELECTRIC MOTOR 1.1 415V 50HZ 3PH 1.13PH	TANK EXTRAS RETURN FILTER WITH VISUAL INDICATOR 25 MICRON RF	MANIFOLD P AND T PORTED ONLY PT
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#### Type UP50

##### HOUSING

Single acting circuit  
 • Direct threaded connections

##### DOUBLE ACTING CIRCUIT

• Arrangement for manifolds

##### REVERSIBLE CIRCUIT

• Direct threaded connections

##### CARTRIDGE VALVES

Standard Cavity: 3/4" UNF and 7/8" UNF

##### SOLENOID VALVES

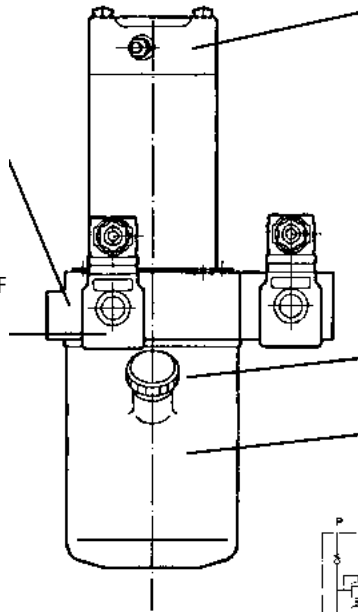
• Direct operating  
 • OPEN and CLOSED centre

##### CONTROL VALVES

• Check valves  
 • Relief valves  
 • Flow control valves

##### MODULE CONTROLS

Mounting for Cartridge Valves:  
 • Customer specified blocks



#### Electric Motors

##### 1. D.C. Motors

Voltage in V	12VDC			24VDC			48VDC			
Power	0.35	0.8	0.9	1.5	0.4	0.9	1.2	1.6	2	2

##### 2. A.C. Single Phase Motors 230V

Power in KW	0.16	0.25	0.33	0.5	0.75	1
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##### 3. A.C. Three Phase Motors 230/400V

Power in KW	0.16	0.25	0.33	0.5	0.75	1
-------------	------	------	------	-----	------	---

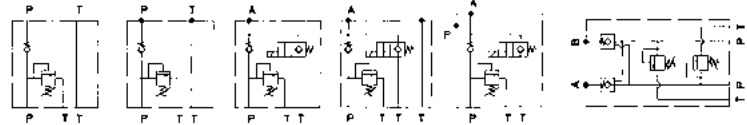
#### Gear Pumps Series AP05

Displacement in cc/rev	0.25	0.5	0.75	0.9	1.2	1.6
Max Pressure	170		190		170	170

#### Oil Tanks

	Capacity in Litres					Also available in steel
Plastic	0.5	1	1.5	2.5	4	

Examples of some Feasible Hydraulic Circuits



#### Type ET

The essential components of series ET electro pumps are an external gear pump and an electro DC motor.

##### ADVANTAGES

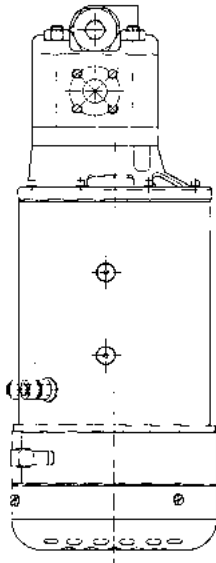
• Noise levels have been drastically reduced  
 • Wide range of displacements and electric motor powers

##### MODELS

• Unidirectional  
 • Reversible (ET - AP05 only)  
 • With motor starting switch  
 • With thermocouple  
 • With integral pressure relief valve (AP100 only)

##### APPLICATIONS

Lift trucks, Automotive applications, Small truck-mounted cranes, Electro-hydraulic steering, Emergency backup systems



#### Pressure Relief Valve

Type	Range	Standard preset
06 VM.	30 - 95 Bar	60 Bar
15 VM.	96 - 210 Bar	150 Bar



#### Gear Pump

AP 05	V in cc/rev	0.25	0.5	0.75	0.9	1.2	1.6		
	p1 in bar	170		190		170			
AP 100	V in cc/rev	1.2	1.7	2.5	3.5	4.3	5	6.5	7.8
	p1 in bar			210				190	180
AP 200	V in cc/rev	4.3	6.3	8.3	11	15	18.9	21.9	
	p1 in bar		220		210		200		

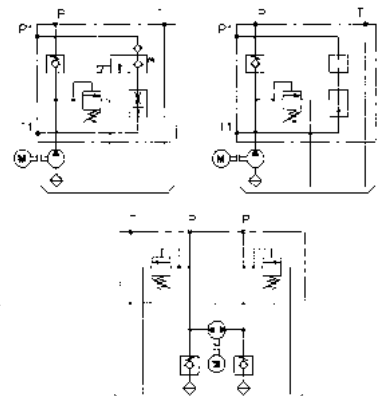
#### ELECTRIC MOTORS

##### D.C. MOTORS

Voltage in VDC	12VDC			24VDC			48VDC	
Power in KW	0.8	1.5	2	1.2	2	3	2	

Also available with 3 phase operation motors for continuous and intermittent operation

Examples of some Feasible Hydraulic Circuits



#### Type UP25

##### HOUSING

Single acting circuit  
 Double Acting Circuit

Reversible Circuit

##### CARTRIDGE VALVES

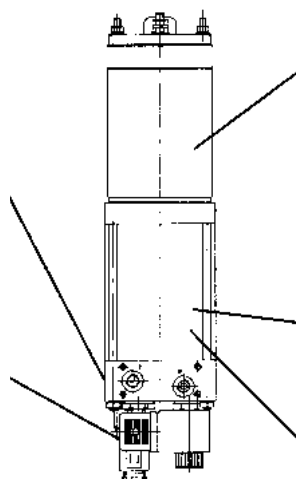
Standard Cavity: 3/4" UNF and 7/8" UNF

##### SOLENOID VALVES

• Direct operating  
 • OPEN and CLOSED centre

##### CONTROL VALVES

• Check valves  
 • Relief valves  
 • Flow control valves



#### Electric Motors

##### 1. D.C. MOTORS

Voltage in VDC	12VDC		24VDC	
Power in Kw	0.35	0.5	0.4	0.5

##### 2. A.C. Single Phase Motors 230V

Power in Kw	0.99	0.16	0.18
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##### 3. A.C. Three Phase Motors 230/400V

Power in Kw	0.09	0.16	0.18
-------------	------	------	------

#### Gear Pumps Series AP05

Displacement in cc/rev	0.16	0.25	0.35	0.5
Max Pressure	150	170	190	190

#### Oil Tanks

	Capacity in Litres	
Steel	0.3	0.5



## Powerpacks

### Powerpack Manufactured

- A top quality range of modular designed powerpacks built to a very high standard.
- Flows from 0.22 L/min – 1000 L/min (much higher flow rates available to order)
- Pressures up to 700 bar (much higher pressures available to order)
- Full design facility upon request
- Short lead times
- Delivery 7/14 days – Quicker if needed very urgently, dependant on specification
- Competitive prices



**ALL STANDARD MODELS COMPLETE WITH THE FOLLOWING TOP-BRANDED PRODUCTS.**

- Gear Pump – Bucher
- Pressure Relief Valve on P+T Ported Block – Flowfit
- Pressure Gauge and Isolator Valve on P+T Ported Block
- Suction Filter – Filtrec
- Return Line Filter c/w Visual Indicator – Filtrec
- Filler Breather – Filtrec
- Fluid Level Indicator – Filtrec
- Manifold P-T – Flowfit
- Bellhousings – Flowfit
- Electric Motor – To your spec

Full operation and maintenance and spare parts manuals supplied with all powerpacks.

To generate your order configuration and number, follow the five simple steps

#### How to order step 1

Select your flow rate and pressure from the chart below. Eg. Flow rate 15.3L/min@175 bar = part number: 202

Flow Rate L/min	Max Continuous Pressure Bar	Bucher Pump Series and Size	Motor Sizes Kw	Part Number
15.8	175	AP200/11	5.5	<b>202</b>
15.8	235	AP200/11	7.5	<b>203</b>
15.8	270	AP200/11	11	<b>204</b>
21.6	50	AP200/15	2.2	<b>212</b>
21.6	70	AP200/15	3	<b>213</b>
21.6	90	AP200/15	4	<b>214</b>
21.6	125	AP200/15	5.5	<b>215</b>
21.6	170	AP200/15	7.5	<b>216</b>
21.6	250	AP200/15	11	<b>217</b>
27.2	40	AP200/19	2.2	<b>218</b>
27.2	55	AP200/19	3	<b>219</b>
27.2	70	AP200/19	4	<b>220</b>
27.2	100	AP200/19	5.5	<b>221</b>
27.2	135	AP200/19	7.5	<b>222</b>
27.2	200	AP200/19	11	<b>223</b>
30.2	40	AP200/22	2.2	<b>224</b>
30.2	50	AP200/22	3	<b>225</b>
30.2	65	AP200/22	4	<b>226</b>
30.2	95	AP200/22	5.5	<b>227</b>
30.2	130	AP200/22	7.5	<b>228</b>
30.2	190	AP200/22	11	<b>229</b>
30.2	250	AP200/22	15	<b>230</b>
37.2	40	AP200/26	3	<b>237</b>
37.2	55	AP200/26	4	<b>238</b>
37.2	80	AP200/26	5.5	<b>239</b>
37.2	105	AP200/26	7.5	<b>240</b>
37.2	155	AP200/26	11	<b>241</b>
37.2	210	AP200/26	15	<b>242</b>
37.2	250	AP200/26	18.5	<b>243</b>
44.6	45	AP300/31	4	<b>244</b>
44.6	65	AP300/31	5.5	<b>245</b>
44.6	85	AP300/31	7.5	<b>246</b>
44.6	125	AP300/31	11	<b>247</b>
53	40	AP300/45	4	<b>255</b>
53	55	AP300/45	5.5	<b>256</b>
53	75	AP300/45	7.5	<b>257</b>
53	110	AP300/45	11	<b>258</b>
53	150	AP300/45	15	<b>259</b>
53	180	AP300/45	18.5	<b>260</b>
53	215	AP300/45	22	<b>261</b>
53	240	AP300/45	30	<b>262</b>
64.8	40	AP300/45	5.5	<b>263</b>
64.8	55	AP300/45	7.5	<b>264</b>
64.8	80	AP300/45	11	<b>265</b>
64.8	110	AP300/45	15	<b>266</b>
64.8	140	AP300/45	18.5	<b>267</b>
64.8	165	AP300/45	22	<b>268</b>
64.8	220	AP300/45	30	<b>269</b>
76.3	30	AP300/53	5.5	<b>270</b>
76.3	45	AP300/53	7.5	<b>271</b>
76.3	65	AP300/53	11	<b>272</b>
76.3	100	AP300/53	15	<b>273</b>
76.3	120	AP300/53	18.5	<b>274</b>
76.3	145	AP300/53	22	<b>275</b>
76.3	195	AP300/53	30	<b>276</b>
90.7	40	AP300/63	7.5	<b>277</b>
90.7	60	AP300/63	11	<b>278</b>
90.7	80	AP300/63	15	<b>279</b>
90.7	100	AP300/63	18.5	<b>280</b>
90.7	120	AP300/63	22	<b>281</b>
90.7	165	AP300/63	30	<b>282</b>
90.7	240	AP300/63	37	<b>283</b>
108	35	AP300/75	7.5	<b>284</b>
108	50	AP300/75	11	<b>285</b>
108	70	AP300/75	15	<b>286</b>
108	85	AP300/75	18.5	<b>287</b>
108	100	AP300/75	22	<b>288</b>
108	140	AP300/75	30	<b>289</b>
108	170	AP300/75	37	<b>290</b>
133	40	AP300/93	11	<b>297</b>
133	55	AP300/93	15	<b>298</b>
133	70	AP300/93	18.5	<b>299</b>
133	80	AP300/93	22	<b>300</b>
133	110	AP300/93	30	<b>301</b>
133	140	AP300/93	37	<b>302</b>

#### How to order step 2

Select your reservoir by size from the chart below eg. 75 litre capacity = 75

#### Reservoirs

Part Number	Capacity
<b>30</b>	30 Litre Capacity
<b>55</b>	55 Litre Capacity
<b>75</b>	75 Litre Capacity
<b>100</b>	100 Litre Capacity
<b>180</b>	180 Litre Capacity
<b>300</b>	300 Litre Capacity

#### How to order step 3

Select your solenoid directional control valve from the chart below. eg. None required = XXX

#### Optional Extras

### Solenoid and Circuit Valves

#### NG6

Part Number	Description
<b>NG6S</b>	Single Acting CETOP 3 Valves any voltage
<b>NG6D</b>	Double Acting CETOP 3 Valves any voltage
<b>NG6DPOCAB</b>	Double Pilot Operated Check Valves A+B CETOP 3
<b>NG6DPOCAB</b>	Single Pilot Operated Check Valve A CETOP 3
<b>NG6DPOCB</b>	Single Pilot Operated Check Valve B CETOP 3
<b>NG6DFCABC</b>	Dual Flow Control Valve C/W Check A+B CETOP 3
<b>NG6SFCAC</b>	Dual Flow Control Valve C/W Check A CETOP 3
<b>NG6SFCBC</b>	Dual Flow Control Valve C/W Check B CETOP 3

#### NG10

Part Number	Description
<b>NG10S</b>	Single Acting CETOP 5 any voltage
<b>NG10D</b>	Double Acting CETOP 5 any voltage
<b>NG10DPOCAB</b>	Double Pilot Operated Check Valve A+B CETOP 5
<b>NG10DPOCAB</b>	Double Pilot Operated Check Valve A CETOP 5
<b>NG10DPOCB</b>	Double Pilot Operated Check Valve B CETOP 5
<b>NG10DFCABC</b>	Dual Flow Control Valve C/W Check A+B CETOP 5
<b>NG10DFCAC</b>	Dual Flow Control Valve C/W Check A CETOP 5
<b>NG10DFCBC</b>	Dual Flow Control Valve C/W Check B CETOP 5
<b>XXX</b>	No Valve Required

#### How to order step 4

Select your manual directional control valve. Eg. 1/2" 1 bank monoblock = hdm118/1

#### Manual Directional Control Valves

Part Number	Port Size	Bank	Flow Rate	Description
<b>HDM11/1</b>	3/8"	1	45 L/min	Bank Monoblock Lever Valve (manual)
<b>HDM11/2</b>	3/8"	2		Bank Monoblock Lever Valve (manual)
<b>HDM11/3</b>	3/8"	3		Bank Monoblock Lever Valve (manual)
<b>HDM11/4</b>	3/8"	4		Bank Monoblock Lever Valve (manual)
<b>HDM11/5</b>	3/8"	5		Bank Monoblock Lever Valve (manual)

Part Number	Port Size	Bank	Flow Rate	Description
<b>HDM18/1</b>	1/2"	1	70 L/min	Bank Monoblock Lever Valve (manual)
<b>HDM18/2</b>	1/2"	2		Bank Monoblock Lever Valve (manual)
<b>HDM18/3</b>	1/2"	3		Bank Monoblock Lever Valve (manual)
<b>HDM18/4</b>	1/2"	4		Bank Monoblock Lever Valve (manual)
<b>XXX0</b>				No Valve Required

#### How to order step 5

To order the configuration shown the part number would therefore be: 202-75-XXX-hdm18/1

#### OTHER OPTIONS AVAILABLE UPON REQUEST

- EEXD – Explosion Proof Motor
- Directional Control Valves (Manual) – Bucher
- NG6/NG10 CETOP Directional Control Valves (Solenoid) – Bucher
- NG6/NG10 Stackable Circuit Valves - Bucher
- Pressure Filters – Filtrec
- Level Temperature Switches – Flowfit
- Heat Exchangers – Flowfit
- Manifolds – Flowfit

Part Number Example	EPMM- Model	S- Body Option	32- Type	C Shaft Option			
<b>Type</b> EPMM (cc Rev)		8	12,5	20	32	40	50
Max. Intermitt. Speed (RPM)		2440	1940	1250	790	625	500
Max. Peak Torque, (daNm)		2,1	3,3	5,1	6,4	6,6	8
Max. Peak Pressure, (bar)		200	200	200	200	140	125
Max. Intermitt. Power, (kW)		2,6	3,2	3,2	3,2	3,0	2,1
Max Length L		104	106	109	114	118	122

### Body Options

Part Number	Description
-	Rear Ports
S	Side Ports
P	Integral Single Relief Valve
D	Integral Dual Relief Valve
F	2 Bolt Flange

### Shaft Options

Part Number	Description
C	16mm Straight Keyed Shaft
CK	14mm Straight Keyed Shaft
SH	16.5mm Splined Shaft



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Part Number Example	EPM- Model	F- Body Option	50- Type	CO Shaft Option										
<b>Type</b> EPM (cc Rev)	25	32	40	50	80	100	125	160	200	250	315	400	500	630
Max. Intermitt. Speed (RPM)	1800	1720	1760	1515	945	755	605	472	378	303	236	189	150	120
Max. Peak Torque, (daNm)	6,7	8,6	11,3	14,3	22,4	27,5	36,5	43,8	55	68,5	85	85,4	78	82
Max. Peak Pressure, (bar)	225	225	225	225	225	225	225	225	255	225	225	180	130	110
Max. Intermitt. Power, (kW)	6,1	7,8	10	12,2	12,5	12,8	12	12	12	12	9	7,8	7,2	5,6
Max Length L	134	135	136	136	140	143	146	150	156	156	172	183	193	211

### Body Options

Part Number	Description
-	Standard 2 Bolt
F	Oval Mount 4 Bolt
W	Wheel Mount
Q	Square Mount 4 Bolt
N	Needle Bearings
E	Rear Ports
D	High Pressure Shaft Seal

### Shaft Options

Part Number	Description
C	25mm straight keyed shaft
CO	1" straight keyed shaft
SH	1" 6B splined shaft
K	28.58mm dia taper 1:10
CB	32mm straight keyed shaft
KB	35mm dia taper 1:10



**RS Motor (200 series)**

Part Number Example      200-  
Series      110-  
Type      A13-  
Body Option      12  
Shaft Option

<b>Type</b> RS (200 series) (cc Rev)	50	80	90	100	110	125	160	200	250	300	400
Max. Intermitt. Speed (RPM)	490	540	580	570	600	530	460	370	360	310	220
Max. Intermitt. Torque, (daNm)	9.5	13.8	16.7	19.5	21.4	20.8	26.5	34.5	34.4	35	46.3
Max. Intermitt. Pressure, (bar)	138	138	138	138	138	121	121	121	103	86	86
Max Length Dim'n "A"	134	138	140	144	146	146	152	158	166	172	190



**Body Options**

Part Number	Description
A13	2 Bolt Flange 1/2" BSP Staggered Ports
A18	2 Bolt Flange 1/2" BSP in-line Ports
F30	4 Bolt Flange 1/2" NPT in-line Ports

**Shaft Options**

Part Number	Description
12	25mm Straight Keyed Shaft
10	1" Straight Keyed Shaft
2	1" 6B Splined Shaft

**EPRM Motor**

Part Number Example      EPRM-  
Model      -  
Body Option      125-  
Type      CO  
Shaft

<b>Type</b> EPRM (cc Rev)	50	80	100	125	160	200	250	315	400
Max. Intermitt. Speed (RPM)	970	940	750	600	490	375	300	240	190
Max. Peak Torque, (daNm)	17	27	32	37	46	56	71	83	87
Max. Peak Pressure, (bar)	225	225	225	225	225	255	225	210	175
Max. Intermitt. Power, (kW)	8,5	15	15	14,5	14	11,5	10,5	9,6	8,8
Max Length L	138	143	146	151	157	164	172	183	198



**Body Options**

Part Number	Description
-	Standard 2 Bolt
F	Oval mount 4 Bolt
W	Wheel Mount
Q	Square Mount 4 Bolt
N	Needle Bearings
E	Rear Ports
D	High Pressure Shaft Seal

**Shaft Options**

Part Number	Description
C	25mm Straight Keyed Shaft
CO	1" Straight Keyed Shaft
SH	1" 6B Splined Shaft
K	28.58mm dia Taper 1:10
CB	32mm Straight Keyed Shaft
KB	35mm dia Taper 1:10

Part Number Example	EPMS- Model	W- Body Option	400- Type	K Shaft Option						
<b>Type</b> EPMS (cc Rev)	80	100	125	160	200	250	315	400		
Max. Intermitt. Speed (RPM)	1000	900	720	560	450	360	285	225		
Max. Peak Torque, (daNm)	26	32	40	51	65	69	84	85		
Max. Peak Pressure, (bar)	225	225	255	225	225	200	185	140		
Max. Intermitt. Power, (kW)	19	21	21	21	17,5	15	13,5	13		
Max Length "L"	166	169	174	180	187	195	207	221		

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### Body Options

Part Number	Description
-	Standard 4 Bolt
F	Oval mount 4 Bolt
A	SAE A 2 Bolt
S	Short Motor
W	Wheel Mount



### Shaft Options

Part Number	Description
C	32mm Straight Keyed Shaft
CO	1 1/4" Straight Keyed Shaft
SH	1 1/4" 14T Splined Shaft
K	35mm dia Taper 1:10
CB	1 3/8" Tractor PTO 6 Spline

### RE Motor (500 Series)

Part Number Example	500- Series	260- Type	W31- Body Option	22 Shaft Option							
<b>Type</b> RE (500 series) (cc Rev)	120	160	200	230	260	300	350	375	470	540	750
Max. Intermitt. Speed (RPM)	490	470	370	320	350	320	270	250	200	170	130
Max. Intermitt. Torque, (daNm)	38.5	54.2	63.3	71.2	79.1	93.8	104.5	115.8	118.4	124.3	123.7
Max. Intermitt. Pressure, (bar)	241	241	241	241	241	241	241	241	189	172	121
Max Length Dim "J" (std mount)	162	162	165	168	170	174	187	180	187	194	212
Max Length Dim "K" (wheel mount)	120	120	123	126	128	132	146	138	146	152	170

### Body Options

Part Number	Description
A31	4 Bolt Standard Mount 7/8" UNF Ports
A38	4 Bolt Standard Mount 1/2" BSP Ports
W31	4 Bolt Wheel Mount 7/8" UNF Ports



### Shaft Options

Part Number	Description
21	32mm Straight Keyed Shaft
20	1 1/4" Straight Keyed Shaft
23	1 1/4" 14T Splined Shaft
22	1 1/4" dia 1:8 Taper Shaft

**EPMT Motor**

Part Number Example      EPMT-Model      W-Body Option      500-Type      SL Shaft Option

<b>Type</b> EPMT (cc Rev)	160	200	250	315	400	500
Max. Intermitt. Speed (RPM)	780	750	600	460	365	285
Max. Peak Torque, (daNm)	66	82	102	133	144	160
Max. Peak Pressure, (bar)	280	280	280	280	240	210
Max. Intermitt. Power, (kW)	32	40	40	40	35	30
Max Length "L"	190	195	201	211	221	235



**Body Options**

Part Number	Description
-	Standard 4 Bolt
S	Short Motor
W	Wheel Mount

**Shaft Options**

Part Number	Description
C	40mm Straight Keyed Shaft
CO	1 1/2" Straight Keyed Shaft
SL	1 3/8" Tractor PTO 6 Spline
K	45mm dia 1:10 Taper Shaft
SH	1 1/2" 17T Splined Shaft

**EPMV Motor**

Part Number Example      EPMV-Model      W-Body Option      630-Type      K Shaft

<b>Type</b> EPMV (cc Rev)	315	400	500	630	800
Max. Intermitt. Speed (RPM)	630	600	480	380	300
Max. Peak Torque, (daNm)	129	164	205	221	247
Max. Peak Pressure, (bar)	280	280	280	240	210
Max. Intermitt. Power, (kW)	51	64	64	56	48
Max Length "L"	215	222	230	240	254



**Body Options**

Part Number	Description
-	Standard 4 Bolt
S	Short Motor
W	Wheel Mount

**Shaft Options**

Part Number	Description
C	50mm Straight Keyed Shaft
CO	2 1/4" Straight Keyed Shaft
K	60mm dia 1:10 Taper Shaft
SH	2 1/8" 16T Splined Shaft



Part Number Example	ELB288- Type	43- Size	C Output Shaft Option										
			Size										
			7	14	21	29	32	43	63	65	85	110	130
<b>Type</b> ELB288	EPM, EPRM, EPMS		*	*	*		*	*	*				
<b>Type</b> ELB289	EPMS (Standard Mount)				*		*	*	*				
<b>Type</b> ELB290	EPMS (Wheel Mount)				*		*	*	*				
<b>Type</b> ELB314	EPMS (Standard Mount)				*	*		*		*	*	*	*
<b>Type</b> ELB315	EPMS (Wheel Mount)				*	*		*		*	*	*	*
Static torque, [daNm]			6-8	13-15	20-22	28-29	31-34	42-45	61-64	61-70	83-92	108-118	126-136
Opening pressure min, [bar]			4-5	8-9	12-13	6-7	18-20	24-26	38-39	13-15	18-20	23-25	27-29
Opening pressure max, [bar]			300										

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### Output Shaft Options

ELB288		ELB289/90		ELB314/315	
C	25mm Straight Keyed Shaft	CB	32mm Straight Keyed Shaft	C	40mm Straight Keyed Shaft
CO	1" Straight Keyed Shaft	KB	35mm dia 1:10 Taper Shaft	CO	1 1/2" Straight Keyed Shaft
SH	1" 6B Splined Shaft			SH	1 1/2" 17T Splined Shaft
				K	45mm dia 1:10 Taper Shaft



### HKU & HKUS Steering Units

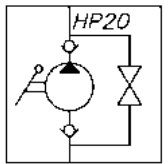
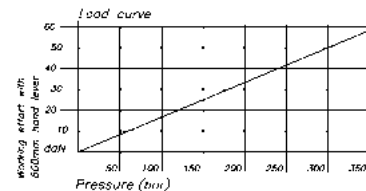
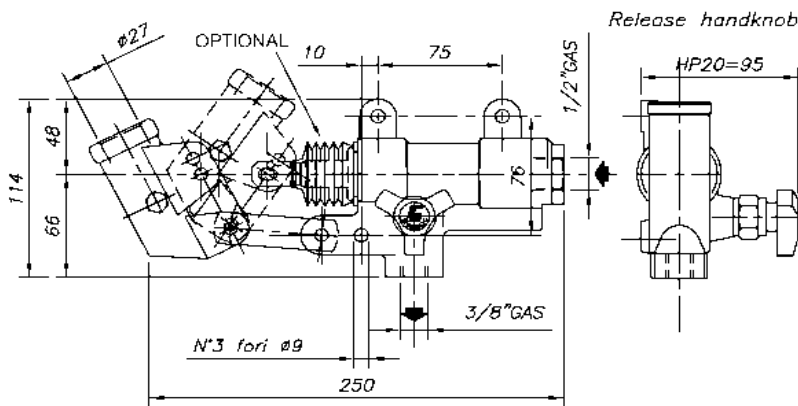
Various options available.  
Please contact your local Pritek centre.



### HP20 Handpump

All handpumps are fully interchangeable with other leading Italian manufacturers.

**350 BAR**



20cm<sup>3</sup> Handpump to Operate Single Acting Cylinder (INLINE).

• WITHOUT RESERVOIR

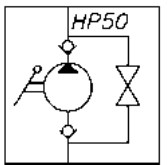
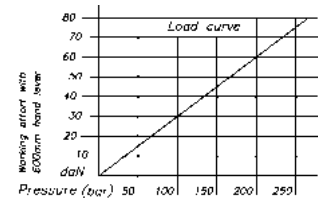
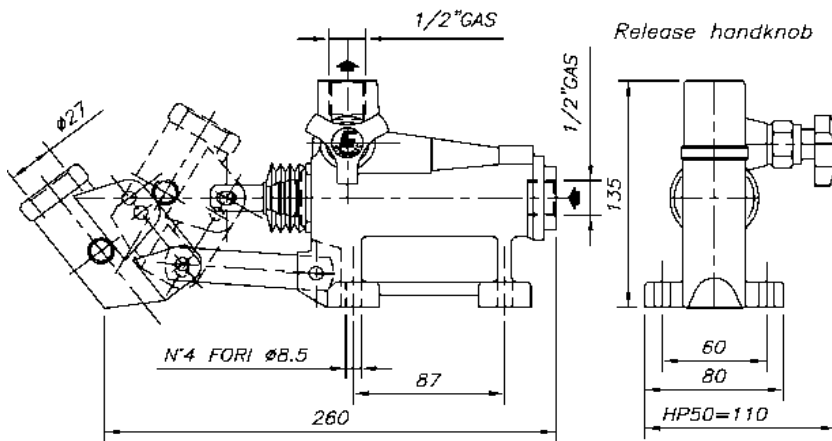
OPTIONAL EXTRAS • BELLOWS to give piston rod protection (s) • RELIEF VALVE to give pump protection (v)

Part Number	Displacement	Max Working Pressure	Weight (Kg)
<b>HP20</b>	20cm <sup>3</sup>	350 Bar	2.9

### HP50 Handpump

All handpumps are fully interchangeable with other leading Italian manufacturers.

**280 BAR**



50cm<sup>3</sup> handpump to operate single acting cylinder.

• WITHOUT RESERVOIR

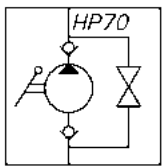
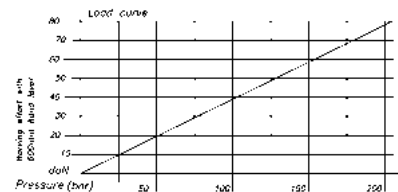
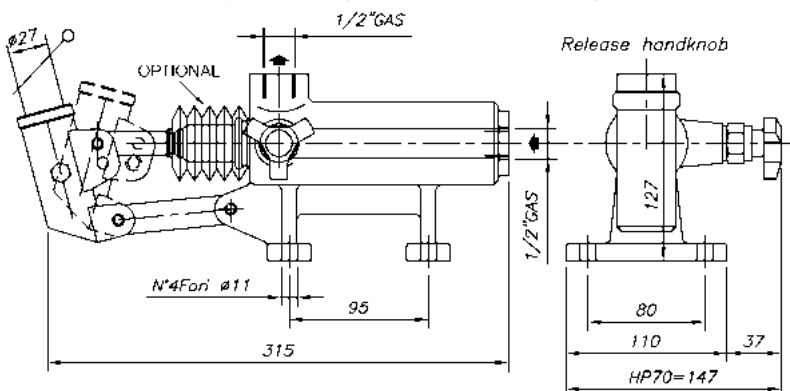
OPTIONAL EXTRAS • BELLOWS to give piston rod protection (s) • RELIEF VALVE to give pump protection (v)

Part Number	Displacement	Max Working Pressure	Weight (Kg)
<b>HP50</b>	50cm <sup>3</sup>	280 Bar	3.8

### HP70 Handpump

All handpumps are fully interchangeable with other leading Italian manufacturers.

**220 BAR**



70cm<sup>3</sup> handpump to operate single acting cylinder.

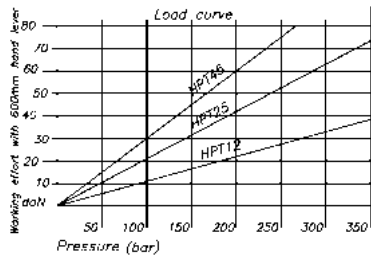
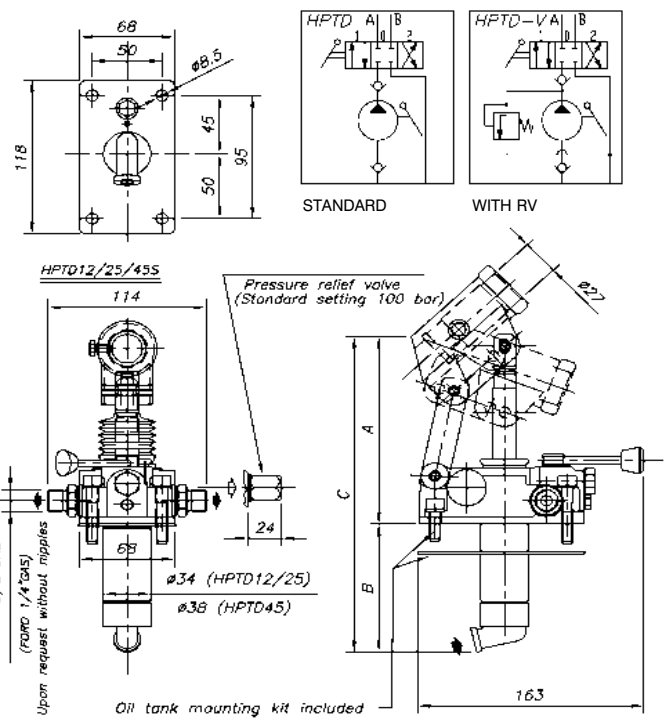
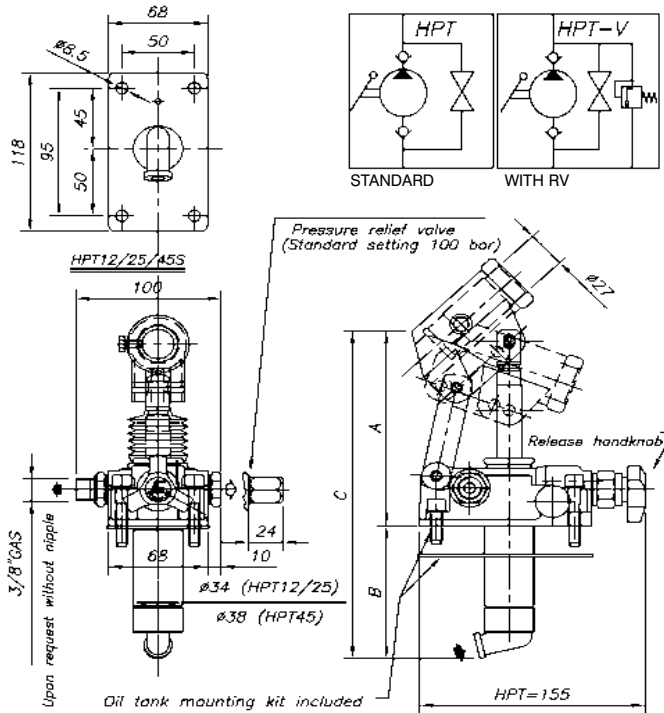
• WITHOUT RESERVOIR

OPTIONAL EXTRAS • BELLOWS to give piston rod protection (s) • RELIEF VALVE to give pump protection (v)

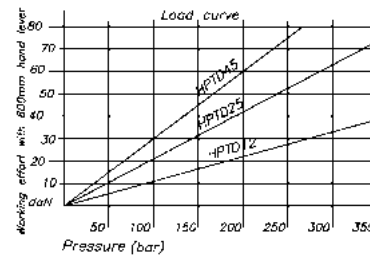
Part Number	Displacement	Max Working Pressure	Weight (Kg)
<b>HP70</b>	70cm <sup>3</sup>	220 Bar	5.5

### HPT12/HPT25/HPT45 Handpumps

### HPTD12/HPTD25/HPTD45 Handpumps



**280-380 BAR**



**280-380 Bar**

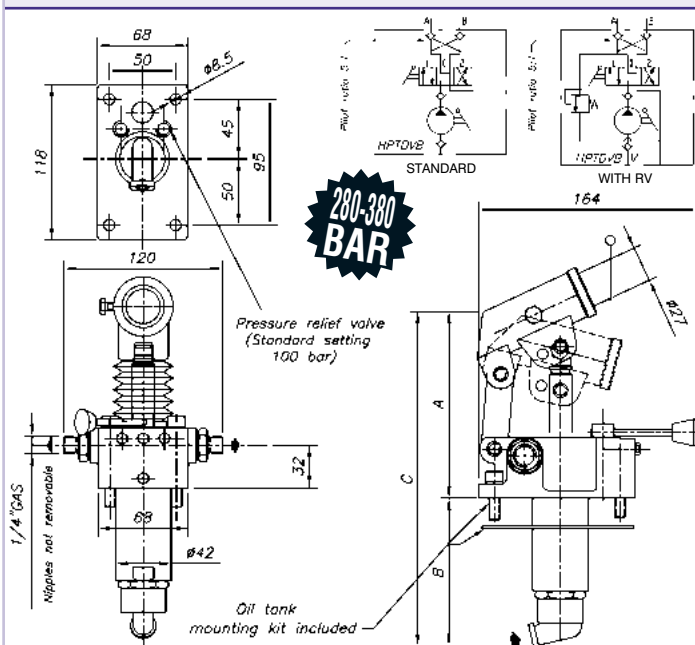
12cm<sup>3</sup>/25cm<sup>3</sup>/5cm<sup>3</sup>/ handpump to operate SINGLE acting cylinder, flanged fixing for hydraulic tank mounting.

12cm<sup>3</sup>/25cm<sup>3</sup>/5cm<sup>3</sup>/ handpump to operate DOUBLE acting cylinder, flanged fixing for hydraulic tank mounting.

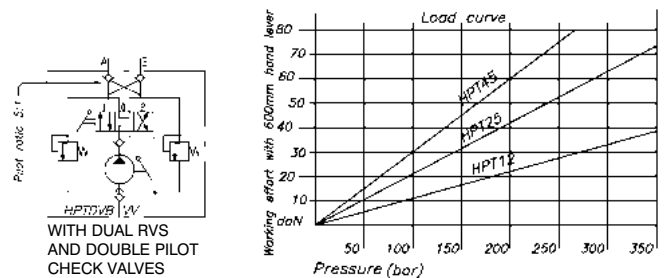
Part Number	Displacement	Max Working Pressure	Weight (Kg)	A	B	C
<b>HPT12</b>	12cm <sup>3</sup>	380 Bar	3.0	145	85	230
<b>HPT25</b>	25cm <sup>3</sup>	350 Bar	3.1	145	98	243
<b>HPT45</b>	45cm <sup>3</sup>	280 Bar	3.2	148	105	253

Part Number	Displacement	Max Working Pressure	Weight (Kg)	A	B	C
<b>HPDT12</b>	12cm <sup>3</sup>	380 Bar	3.0	145	85	230
<b>HPDT25</b>	25cm <sup>3</sup>	350 Bar	3.1	145	98	243
<b>HPDT45</b>	45cm <sup>3</sup>	280 Bar	3.2	148	105	253

### HPTDVB12/HPTDVB25/HPTDVB45 Handpumps



**280-380 BAR**



12cm<sup>3</sup>/25cm<sup>3</sup>/5cm<sup>3</sup>/ handpump to operate DOUBLE acting cylinder, Supplied complete with 4 way 3 position directional valve and a dual pilot operated check valve. Flanged fixing for hydraulic tank mounting

Part Number	Displacement	Max Working Pressure	Weight (Kg)	A	B	C
<b>HPTDVB12</b>	12cm <sup>3</sup>	380 Bar	3.6	145	112	257
<b>HPTDVB25</b>	25cm <sup>3</sup>	350 Bar	3.6	158	112	270
<b>HPTDVB45</b>	45cm <sup>3</sup>	280 Bar	3.6	163	112	275



### HPTSE6/HPTSE11/HPTSE22 Handpump

### HPT2C 2 Speed Handpump

**280-380 BAR**

6cm<sup>3</sup>/11cm<sup>3</sup>/22cm<sup>3</sup> handpump to operate single acting function for a single acting cylinder. Flanged fixing for hydraulic tank mounting.

Part Number	Displacement	Max Working Pressure	Weight (Kg)	A	B	C
<b>HPTSE6</b>	6cm <sup>3</sup>	380 Bar	3.0	145	85	230
<b>HPTSE11</b>	11cm <sup>3</sup>	350 Bar	3.1	145	98	243
<b>HPTSE22</b>	22cm <sup>3</sup>	280 Bar	3.2	148	105	253

High pressure high speed handpump, ideal for hydraulic press applications.

Part Number	Displacement First Stage	Displacement Second Stage	Max Working Pressure First Stage	Max Working Pressure Second Stage	Weight (Kg)
<b>HPT2C75/5</b>	75cc	5cc	20	450	6.5
<b>HPT2C75/T</b>	75cc	8cc	20	450	6.5

### HPBSE Mini-Flow Series Handpump

### FPSE20 Footpump

**250 BAR**

2.5cm<sup>3</sup> handpump for single acting function and fixing to wall.

Part Number	Displacement	Max Working Pressure	Weight (Kg)
<b>HPBSE2.5</b>	2.5cm <sup>3</sup>	250 Bar	1.2
<b>HPBSE2.5E</b>	2.5cm <sup>3</sup>	250 Bar	1.2

**200 BAR**

**NEW DESIGN**

14cm<sup>3</sup> Foot pump to operate single acting function complete with 1.5 litre cylindrical hydraulic tank.

Part Number	Displacement	Max Working Pressure	Weight (Kg)
<b>FPSE20</b>	14cm <sup>3</sup>	200 Bar	11



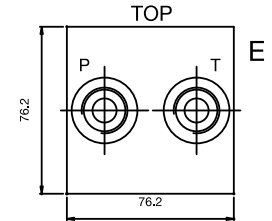
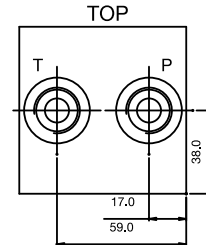
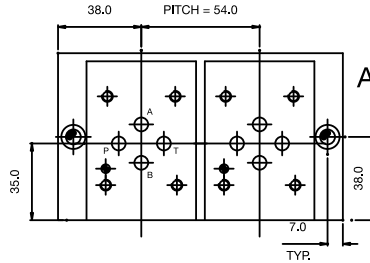
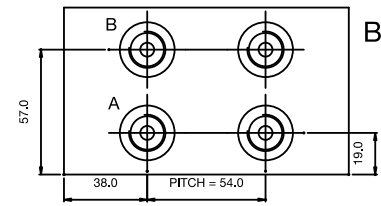
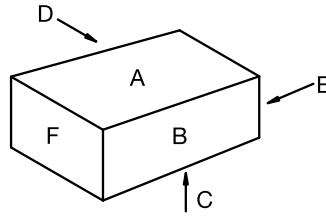
## Side Entry • Cetop 3

### ORDERING CODE INFORMATION

Steel Code No. 105161/\*  
 Alum Alloy Available on request

\* Number of Stations

- Material -Steel  
-Alum. Alloy
- Working Pressure -Steel 315 Bar  
-Alum Alloy 250 Bar
- 'A' and 'B' Ports -3/8" B.S.P.
- 'P' and 'T' Ports -1/2" B.S.P.
- Valve Fixings -M5 x 12  
Full Thread
- Manifold Fixings -6.8 Dia Through  
C'Bore 11 Dia x 9 dp.
- Pitch -54.0 mm



Side Entry • Cetop 3

Part Number	Number of Stations	Overall Length	Overall Weight
<b>105161/1</b>	One	76.0	3.0 Kgs
<b>105161/2</b>	Two	130.0	5.3 Kgs
<b>105161/3</b>	Three	184.0	7.6 Kgs
<b>105161/4</b>	Four	238.0	10.0 Kgs
<b>105161/5</b>	Five	292.0	12.2 Kgs
<b>105161/6</b>	Six	346.0	14.5 Kgs
<b>105161/7</b>	Seven	400.0	16.8 Kgs
<b>105161/8</b>	Eight	454.0	19.1 Kgs

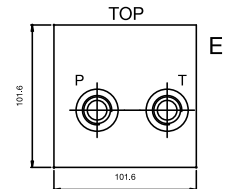
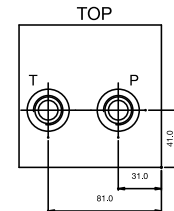
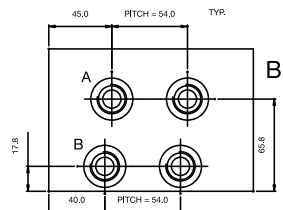
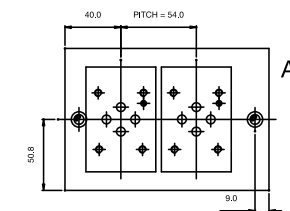
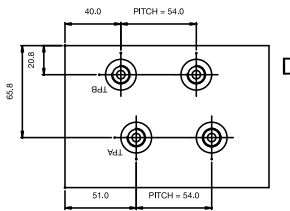
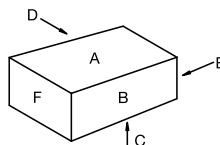
## Side Entry Test Point • Cetop 3

### ORDERING CODE INFORMATION

Steel Code No. 125161/\*  
 Alum Alloy Available on request

\* Number of Station's

- Material -Steel  
-Alum. Alloy
- Working Pressure -Steel 315 Bar  
-Alum Alloy 250 Bar
- 'A' and 'B' Ports -1/2" B.S.P.
- 'P' and 'T' Ports -1/2" B.S.P.
- Test Points -1/4" B.S.P.
- Valve Fixings -M5 x 12  
Full Thread
- Manifold Fixings -6.8 Dia Through  
C'Bore 11 Dia x 9 dp.
- Pitch -54.0 mm



Side Entry Test Point • CETOP 3

Part Number	Number of Stations	Overall Length	Overall Weight
<b>125161/1</b>	One	92.0	6.7 Kgs
<b>125161/2</b>	Two	146.0	10.7 Kgs
<b>125161/3</b>	Three	200.0	14.6 Kgs
<b>125161/4</b>	Four	254.0	18.6 Kgs
<b>125161/5</b>	Five	308.0	22.5 Kgs
<b>125161/6</b>	Six	362.0	26.5 Kgs
<b>125161/7</b>	Seven	416.0	30.5 Kgs
<b>125161/8</b>	Eight	416.0	34.5 Kgs

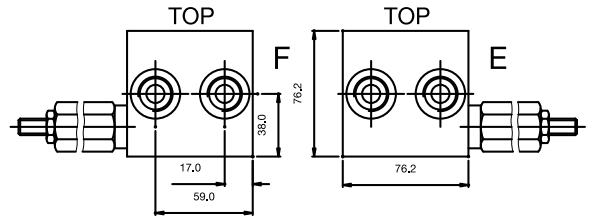
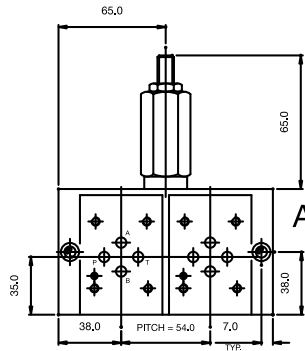
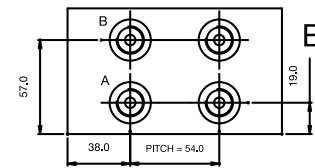
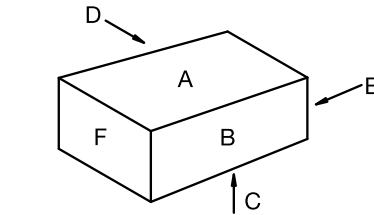
### Side Entry Relief Valve • Cetop 3

#### ORDERING CODE INFORMATION

Steel Code No. 115161/\*  
 Alum Alloy Available on request

\* Number of Station's

- Material -Steel  
-Alum. Alloy
- Working Pressure -Steel 315 Bar  
-Alum Alloy 250 Bar
- 'A' and 'B' Ports -3/8" B.S.P.
- 'P' and 'T' Ports -1/2" B.S.P.
- Valve Fixings -M5 x 12  
Full Thread
- Manifold Fixings -6.8 Dia Through  
C'Bore 11 Dia x 9 dp.
- Adjustable Press. Range -5 to 420 Bar
- Pitch -54.0 mm



Side Entry Relief Valve • Cetop 3

Part Number	Number of Stations	Overall Length	Overall Weight
<b>115161/1</b>	One	105.0	4.1 Kgs
<b>115161/2</b>	Two	130.0	5.3 Kgs
<b>115161/3</b>	Three	184.0	7.6 Kgs
<b>115161/4</b>	Four	238.0	10.0 Kgs
<b>115161/5</b>	Five	292.0	12.2 Kgs
<b>115161/6</b>	Six	346.0	14.5 Kgs
<b>115161/7</b>	Seven	400.0	16.8 Kgs
<b>115161/8</b>	Eight	454.0	19.1 Kgs

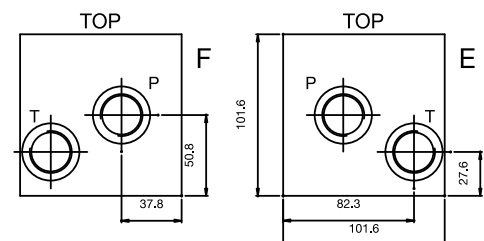
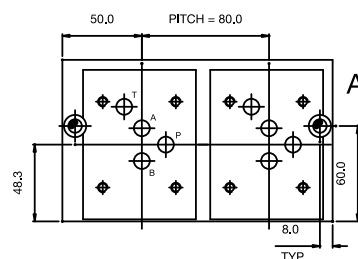
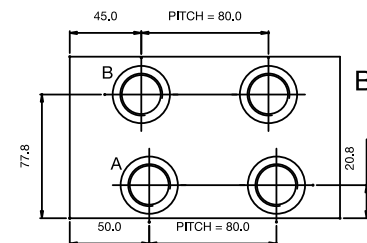
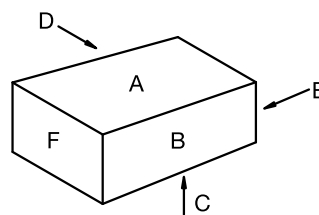
### Side Entry • Cetop 5

#### ORDERING CODE INFORMATION

Steel Code No. 205171/\*  
 Alum Alloy Available on request

\* Number of Station's

- Material -Steel  
-Alum. Alloy
- Working Pressure -Steel 315 Bar  
-Alum Alloy 250 Bar
- 'A' and 'B' Ports -3/4" B.S.P.
- 'P' and 'T' Ports -3/4" B.S.P.
- Valve Fixings -M6 x 12  
Full Thread
- Manifold Fixings -8.5 Dia Through  
C'Bore 14 Dia x 9 dp.
- Pitch -80.0 mm



Side Entry • Cetop 5

Part Number	Number of Stations	Overall Length	Overall Weight
<b>205171/1</b>	One	90.0	7.0 Kgs
<b>205171/2</b>	Two	170.0	12.5 Kgs
<b>205171/3</b>	Three	250.0	18.0 Kgs
<b>205171/4</b>	Four	330.0	24.0 Kgs
<b>205171/5</b>	Five	410.0	30.0 Kgs
<b>205171/6</b>	Six	490.0	36.0 Kgs

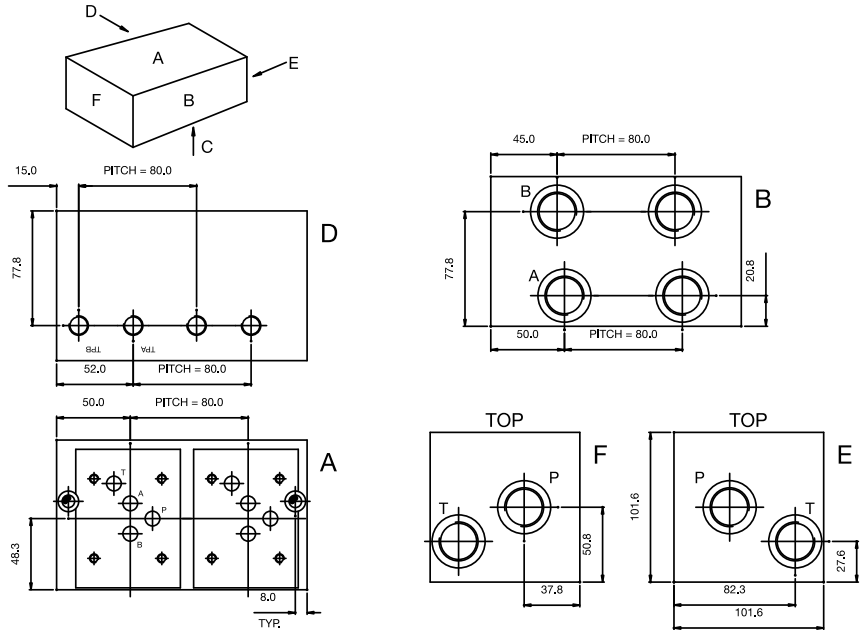
## Side Entry Test Point • Cetop 5

### ORDERING CODE INFORMATION

Steel Code No. 225171/\*  
 Alum Alloy Available on request

\* Number of Station's

- Material -Steel  
-Alum. Alloy
- Working Pressure -Steel 315 Bar  
-Alum Alloy 250 Bar
- 'A' and 'B' Ports -3/4" B.S.P.
- 'P' and 'T' Ports -3/4" B.S.P.
- Test Points -1/4" B.S.P.
- Valve Fixings -M6 x 12  
Full Thread
- Manifold Fixings -8.5 Dia Through  
C'Bore 14 Dia x 9 dp.
- Pitch -80.0 mm



Side Entry Test Point • Cetop 5

Part Number	Number of Stations	Overall Length	Overall Weight
<b>225171/1</b>	One	90.0	7.0 Kgs
<b>225171/2</b>	Two	170.0	12.5 Kgs
<b>225171/3</b>	Three	250.0	18.0 Kgs
<b>225171/4</b>	Four	330.0	24.0 Kgs
<b>225171/5</b>	Five	410.0	30.0 Kgs
<b>225171/6</b>	Six	490.0	36.0 Kgs

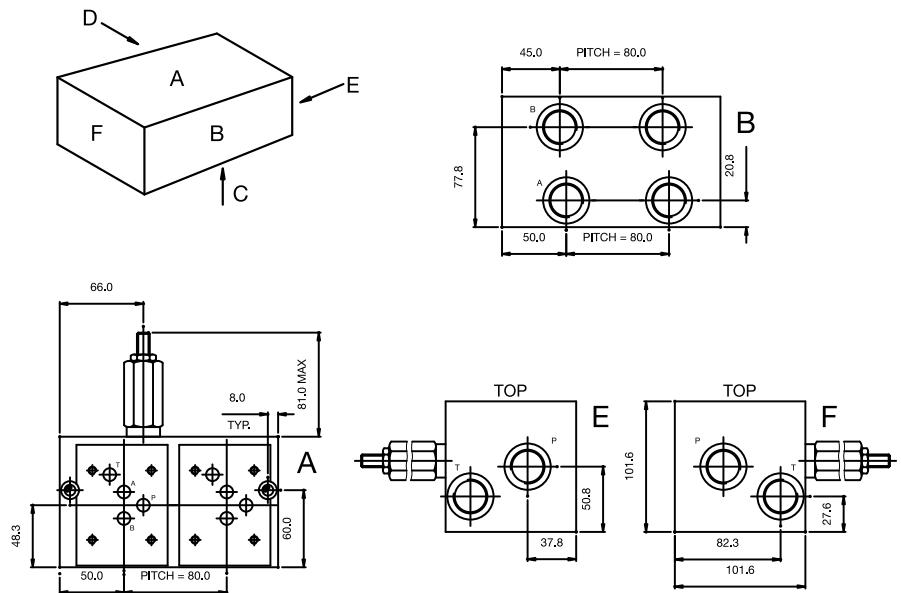
## Side Entry Relief Valve • Cetop 5

### ORDERING CODE INFORMATION

Steel Code No. 215171/\*  
 Alum Alloy Available on request

\* Number of Station's

- Material -Steel  
-Alum. Alloy
- Working Pressure -Steel 315 Bar  
-Alum Alloy 250 Bar
- 'A' and 'B' Ports -3/4" B.S.P.
- 'P' and 'T' Ports -3/4" B.S.P.
- Valve Fixings -M6 x 12  
Full Thread
- Manifold Fixings -8.5 Dia Through  
C'Bore 14 Dia x 9 dp.
- Adjustable Press. Range -5 to 420 Bar
- Pitch -80.0 mm



Side Entry Relief Valve • Cetop 5

Part Number	Number of Stations	Overall Length	Overall Weight
<b>115171/1</b>	One	90.0	7.0 Kgs
<b>115171/2</b>	Two	170.0	12.5 Kgs
<b>115171/3</b>	Three	250.0	18.0 Kgs
<b>115171/4</b>	Four	330.0	24.0 Kgs
<b>115171/5</b>	Five	410.0	30.0 Kgs
<b>115171/6</b>	Six	490.0	36.0 Kgs

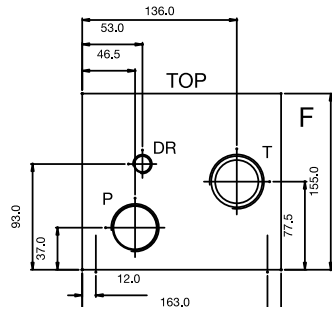
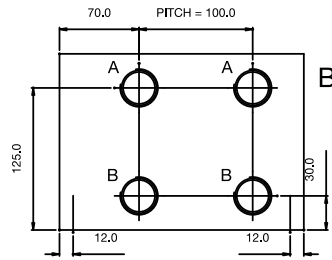
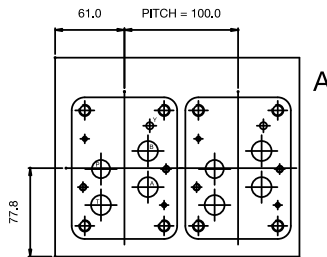
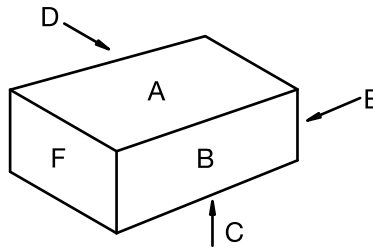
### Side Entry • Cetop 7

#### ORDERING CODE INFORMATION

Steel Code No. 705161/\*

\* Number of Station's

- Material -Steel
- Working Pressure -Steel 315 Bar
- 'A' and 'B' Ports -1" B.S.P.
- 'P' Port -1 1/4" B.S.P Through
- 'T' Port -1 1/2" B.S.P Through
- 'DR' Port -3/8" B.S.P Through
- Valve Fixings -M10 x 16 Full Thread  
-M6 x 12 Full Thread
- Manifold Fixings -M12 x 20 Deep Full Thread
- Pitch -100.0 mm



Side Entry • Cetop 7

Part Number	Number of Stations	Overall Length	Overall Weight
<b>705161/1</b>	One	115.0	21.0 Kgs
<b>705161/2</b>	Two	215.0	38.0 Kgs
<b>705161/3</b>	Three	315.0	47.0 Kgs

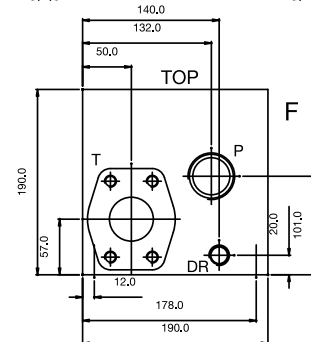
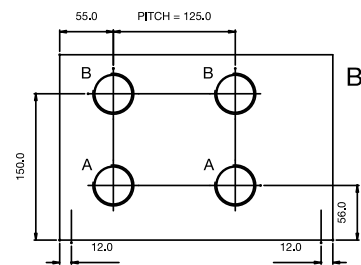
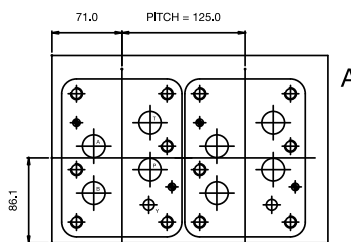
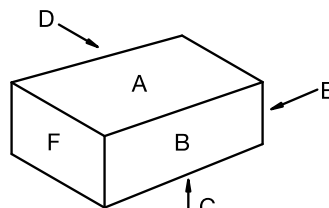
### Side Entry • Cetop 8

#### ORDERING CODE INFORMATION

Steel Code No. 805161/\*

\* Number of Station's

- Material -Steel
- Working Pressure -Steel 315 Bar
- 'A' and 'B' Ports -1 1/4" B.S.P.
- 'P' Port -1 1/2" B.S.P Through
- 'T' Port -2" SAE 3000 Flange Through
- 'DR' Port -1/2" B.S.P Through
- Valve Fixings -M12 x 20 Full Thread
- Manifold Fixings -M12 x 20 Deep Full Thread
- Pitch -125.0 mm



Side Entry • Cetop 8

Part Number	Number of Stations	Overall Length	Overall Weight
<b>805161/1</b>	One	155.0	21.0 Kgs
<b>805161/2</b>	Two	280.0	38.0 Kgs

### Cetop Adaptor, Blanking and Tapping Plates

Part Number	Description
<b>BP-31</b>	CETOP 3 Blanking Plate
<b>BP-51</b>	CETOP 5 Blanking Plate
<b>BP-71</b>	CETOP 7 Blanking Plate
<b>BP-81</b>	CETOP 8 Blanking Plate
<b>TP-31AB</b>	CETOP 3 - A & B Tapping Plate
<b>TP-31PT</b>	CETOP 3 - P & T Tapping Plate
<b>TP-51AB</b>	CETOP 5 - A & B Tapping Plate

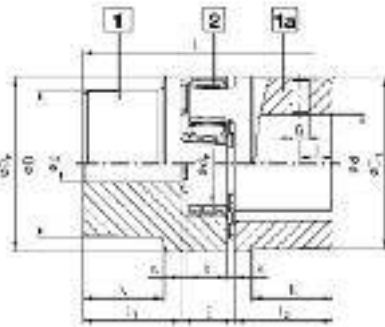
Part Number	Description
TP-51PT	CETOP 5 - P & T Tapping Plate
AP-531	CETOP 5 to 3 Adaptor Plate
AP-731	CETOP 7 to 3 Adaptor Plate
AP-751	CETOP 7 to 5 Adaptor Plate
AP-831	CETOP 8 to 3 Adaptor Plate
AP-851	CETOP 8 to 5 Adaptor Plate
AP-871	CETOP 8 to 7 Adaptor Plate

Torsionally Flexible Couplings Shaft Coupling design No. 001 - Cast Materials

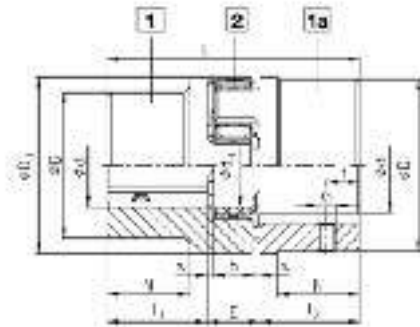


- Torsionally flexible, maintenance-free
- Damping vibrations
- Axial plug-in, fall-safe
- Allow machining – good dynamic properties
- Compact design/small flywheel effect
- Finish bore according to ISO fit H7, feather keyway according to DIN 6985 sheet 1 - JS9
- Basic programme/stock programme see pages 37 and 38
- Approved according to EC Standard 94/5/EC (without aluminium AL-D)

1.9



AL-D (thread opposite the keyway)



EN-GJL-250 (GG 25) / EN-GJS-400-15 (GGG 40) (thread on the keyway)

Aluminium diecast (AL-D)																	
Size	Component	Spider [part 2] <sup>1)</sup>			Finish bore d (min-max)	Dimensions [mm]											
		92 Rn A	96 Rn A	64 Rn D		General											Thread for set screws
		Rated torque [Nm]															
14	1a	7,5	12,5	–	6-10	35	11	13	10	1,5	30	10	30	–	M4	5	
16	1	10	17	–	6-10	66	25	18	12	2	41	18	32	20	M5	10	
	12-24				41												
24	1a	35	60	–	9-24	78	30	18	14	2	55	27	40	24	M5	10	
	10-28				56												
28	1	55	160	–	10-28	90	35	20	15	2,5	67	30	48	25	M6	15	
	25-28				57												
Cast iron EN-GJL-250 (GG 25)																	
36	1	100	325	405	12-28	114	45	24	18	3	80	38	55	37	M6	15	
	33-45				75												
42	1a	265	490	580	14-42	130	50	28	20	3	95	48	75	40	M6	20	
	42-66				94												
48	1	310	525	655	15-48	140	58	29	21	3,5	105	51	85	45	M6	20	
	48-60				104												
55	1a	410	685	825	33-55	160	65	30	22	4	120	60	95	50	M10	20	
	55-70				115												
68	1	625	940	1170	32-66	185	75	35	26	4,5	135	68	115	61	M10	20	
75	1	1290	1650	2400	30-75	210	85	40	30	5	160	80	155	69	M10	25	
80	1	2400	3600	4800	40-80	248	100	45	34	5,5	200	100	180	81	M12	30	
Nodular iron EN-GJS-400-15 (GGG 40)																	
100	1	5000	4550	6185	50-115	270	110	50	38	6	225	119	180	89	M12	30	
110	1	4800	7200	9000	60-125	295	120	55	42	6,5	230	127	200	95	M16	35	
125	1	6050	10000	12500	60-145	340	140	60	46	7	250	147	230	112	M16	40	
140	1	8550	12000	16000	60-150	375	155	65	50	7,5	260	165	255	124	M20	45	
160	1	12800	18200	24000	60-185	425	175	75	57	9	370	180	290	143	M20	50	
180	1	18850	28000	35000	65-230	475	195	85	64	10,5	420	220	305	158	M20	60	

– If no material is mentioned in the order, the calculation/order is based on the material marked with

1) Maximum torque of the coupling  $T_{max}$  = rated torque of the coupling  $T_{Rmax}$  x 2

2) From size 125 thread for set screws on request.

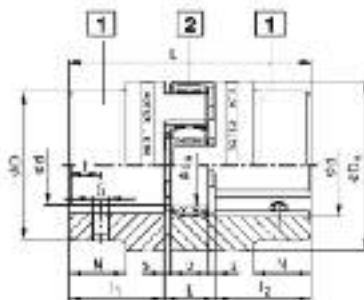
Coupling size	-36	EN-GJL-250	92	1	–	Ø 38	1	–	Ø 25
		Material	Spider hardness [Shore A]	Hub design		Finish bore	Hub design		Finish bore



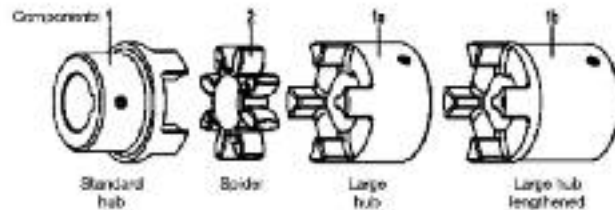
### Torsionally Flexible Couplings Shaft Coupling design No. 001 - Material Steel



- Hubs from steel, specifically suitable for drive elements subject to high loads, e. g. steel mills, elevator drives, spline hubs, etc.)
- Torsionally flexible, maintenance-free, vibration-damping
- Axial plug-in, fail-safe
- All-over machining - good dynamic properties
- Compact design/small flywheel effect
- Finish bore according to ISO fit H7, feather keyway according to DIN 6885 sheet 1 - JS9
- Approved according to EC Standard 94/9/EC (Explosion Certificate ATEX 95)



Steel (thread on the keyway)



steel																			
Size	Component	Spider (part 2) <sup>1)</sup> Rated torque [Nm]			Finish bore d (min-max)	Dimensions [mm]													
		92 Sh A	98 Sh A	94 Sh D		General										Spec. for steel		Thread for adhesives	
						L	L <sub>1</sub> /L <sub>2</sub>	E	b	s	D <sub>h</sub>	d <sub>h</sub>	D	N	G	t			
19	1a	30	17	21	0-25	65	25	13	12	2	40	18	40	-	M5	10			
	1b					60	27												
24	1a	35	20	25	0-35	70	30	13	14	2	55	27	55	-	M5	10			
	1b					115	30												
28	1a	95	160	200	0-40	90	35	20	15	2,5	65	30	65	-	M5	15			
	1b					140	30												
38	1	190	355	495	0-48	114	45	24	16	3	80	38	70	27	M5	15			
	1b					164	70						80	-					
42	1	260	400	590	0-55	126	50	25	20	3	95	45	85	33	M5	20			
	1b					176	75						95	-					
48	1	310	525	655	0-62	140	55	28	21	3,5	105	51	95	32	M5	20			
	1b					188	60						105	-					
58	1	410	685	825	0-74	160	60	33	22	4	130	60	110	37	M10	20			
	1b					210	90						120	-					
65	1	625	940	1175	0-80	185	75	35	25	4,5	135	65	115	47	M10	20			
	1b					235	100						135	-					
75	1	1280	1920	2400	0-95	210	85	40	30	5	160	80	135	53	M10	25			
	1b					260	110						160	-					
90	1	2400	3600	4500	0-110	245	100	45	34	5,5	200	100	180	62	M12	30			
	1b					295	125						200	-					

sintered steel																
Size	Component	Spider (part 2) <sup>1)</sup> Rated torque [Nm]		Finish bore d	Dimensions [mm]											
		92 Sh A	98 Sh A		General										Thread for adhesives	
					L	L <sub>1</sub> /L <sub>2</sub>	E	b	s	D <sub>h</sub>	d <sub>h</sub>	D	N	G	t	
14	1a	7,5	12,5	unbored 8, 10, 11, 12, 14	35	11	13	10	1,5	30	13	30	-	M4	5	
	1b	10	17	unbored 14, 16, 18, 20, 22, 24	65	25	16	12	2	40	18	40	-	M5	10	

<sup>1)</sup> If no material is mentioned in the order, the calculation/order is based on the material marked with .   
<sup>2)</sup> Maximum torque of the coupling  $T_{max}$  = rated torque of the coupling  $T_r$   $\times$  2.

19 – 48 from stainless steel available from stock

19, 28 and 42 – hub material X10CrNi5-10-9 material number 1.4305 (V2A) DIN 17440  
 24, 38 and 48 – hub material X8CrNiMo717-12-2 material number 1.4571 (V4A) DIN 17445

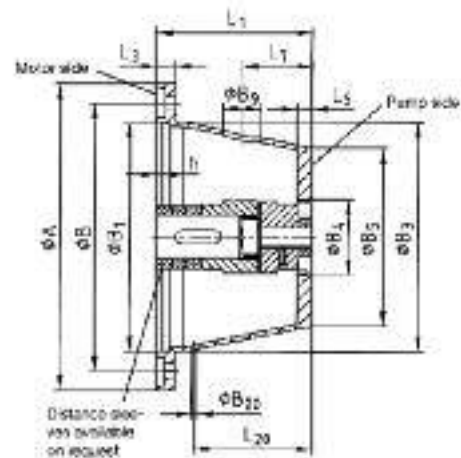
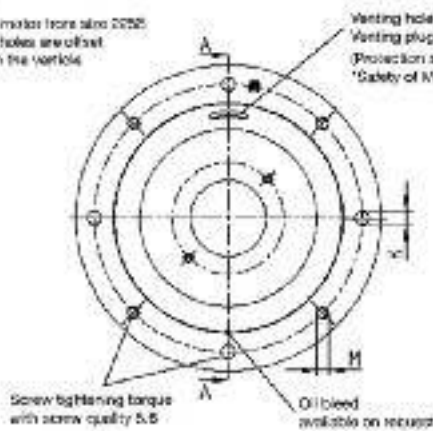
-38	St	92	1	-	Ø 45	1a	-	Ø 25
Coupling size	Material	Solder hardness [Shore A]	Hub design	Finish bore	Hub design	Finish bore		

Hydraulic Components Bellhousings According to VDMA 24561 Design A



- Links between IEC motor and hydraulic pump
- For almost every hydraulic pump either available from stock or in short term
- Both flange sides are finish machined
- Motor and pump shaft centered
- KTR bellhousings are made from aluminium
- In many cases KTR bellhousings can be piled up
- Designed for high loads
- Bellhousing types made from grey cast iron or steel on request
- Notice our mounting instructions

For IEC motor from size 0250:  
S fitting holes are offset  
22,5° on the vertical



IEC- motor size (shaft end) $\phi_1, \phi_2$	NW with $n = 1500$ 1/min	Bell- housing Size	Cover DP Size	Foot flange PTFL/ PTFS T	Dimensions [mm]															
					A <sub>1</sub>	B	B <sub>1</sub>	B <sub>2</sub>	h	K	M	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	B <sub>3</sub>	B <sub>4</sub>	Venting hole		Oil bleed	
73 (14 x 30)	0,25	PK 160/5/..	150	160	160	130	110	110	4	6	M8	80	13	8	105	27	25	33	7,5	52
	0,37	PL 160/5/..										90				29		38		62
90 (19 x 40)	0,55	PK 200/3/..										100			124	37		43		64
	0,75	PL 200/3/..										110						47		74
90B / 90L (24 x 50)	1,1	PL 200/4/..	200	200	200	185	130	145	4	11	M10	124	16	12	133	27	36	50	7,5	88
	1,5	PFL 200/5/..										140			180	47		52		104
100L / 112M (25 x 60)	2,2	PK 250/5/..										120			180	74		54		77
	3	PL 250/3/..	250	250	250	215	160	190	5	14	M12	124		12	124	42		52		81
	4	PL 250/4/..										148	18	12	180		40	57	7,5	92
		PFL250/16/..										175			250			77		132
132 S / 132 M (38 x 80)	5,5	PK 300/5/..										144			205	57		63		99
	7,6	PL 300/4/..	300	300	300	285	230	254	5	14	M12	150			231	77		68		105
		PK 300/4/..										188	20	15	165	56	50	68	7,5	110
		PL 300/7/..										196			220	57		74		123
160M / 160L (42 x 110) 160M / 160L (48 x 110)	11	PK 350/4/..										188			230	66		82		138
	15	PK 350/5/..	350	350	350	300	250	280	6	17	M16	204	25	15			50	87	7,5	154
	18,5	PK 350/10/..										228			251	57		108		178
	22	PL 350/7/..										256			258	74		115		206
200L (55 x 110)	30	PK 400/4/..	400	400	400	350	300	300	6	17	M16	204			230	75		92		154
		PL 400/5/..										228	25	20	290	77	50	104	7,5	178
		PK 400/5/..										256			27			116		206

Please indicate in the order if the bellhousing is needed in oilproof design! (Extra charge)

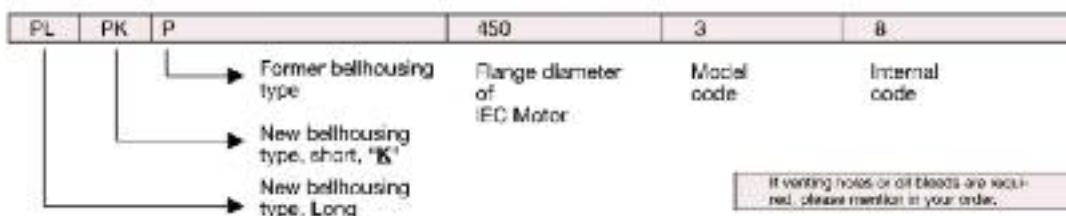


IEC - motor size (shaft end) d <sub>1</sub> x d <sub>2</sub>	kW with n = 1500 1/min	Bell-housing Size	Gasket DP Size	Foot flange PTFE/PTFS (°)	Dimensions [mm]																
					A <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	h	K	M	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	B <sub>4</sub>	B <sub>5</sub>	B <sub>6</sub>	L <sub>4</sub>	B <sub>7</sub>	L <sub>5</sub>	B <sub>8</sub>
225 S / 225 M (60 x 140)	37	FK 450/2/..	450	450	450	400	350	350	6	17	M16	234	25	20	290	97	50	107	7,5	189	
		FK 450/3/..										202		22				121		215	
		PL 450/3/..										286		20				133		239	
250 M (60 x 140) 250 S / 250 M (75 x 140)	55	FK 550/1/..	550	550	550	500	450	450*	6	17	M16	248	26	25	540	97	50	116	7,5	201	
		PL 550/1/..										265								125	218
		FK 550/3/..										275						26		140	228
		PL 550/3/..										295								140	245
315 S / 315 M (80 x 170)	110	FK 650/2/..	650	650	600	550	550*	8	22	M20	310	32	30	490	100	50	147	7,5	253		
		PL 650/3/..									330								163	274	
		FK 650/3/..									343								163	290	
		PL 650/4/..									396								190	335	

#### Other bellhousings

71 (14 x 30)	0,25	FK 150/6/..	160	160	150	130	110	4	9	M8	79	13	13	140	30	25	35	7,5	51																	
	0,37	PFL 150/6/..									101								60	46	73															
80 (19 x 40)	0,55	FK 200/4/..	200	200	200	165	150	4	11	M10	109	16	12	144	37	36	48	7,5	73																	
	0,75	FK 200/11/..									45								10	15	15															
90S / 90L (24 x 50)	1,1	PL 200/11/..	200	200	200	165	150	4	11	M10	55	12	12	142	37	25	30	7,5	19																	
		FK 200/13/..									152								30	36	71	115														
	FK 200/30/..	79																		30	43															
	PL 200/30/..	90																		37	54															
100L / 112M (28 x 60)	2,2	FK 250/13/..	250	250	250	215	180	5	14	M12	159	18	12	187	37	10	20	7,5	115																	
		FK 250/15/..									61								18	20	18															
	PL 250/15/..	79																		20	228															
	FK 250/17/..	100																		40	57															
122S / 132M (38 x 50)	5,5	FK 300/8/..	300	300	300	265	230	5	14	M12	110	20	15	231	37	40	32	7,5	65																	
		FK 300/9/..									85										30	40														
	PL 300/9/..	99																		40	37															
	FK 300/13/..	210																		50	85															
160M / 160L (42 x 110) 180M / 180L (48 x 110)	11	FK 350/8/..	350	350	300	250	260	6	17	M16	204	25	15	258	53	50	60	7,5	154																	
		FK 350/11/..									130										62	80														
	PL 350/11/..	146																		60	85															
	FK 350/18/..	159																		67	109															
200L (58 x 110)	15	PL 350/18/..	350	350	300	250	260	6	17	M16	184	25	15	258	53	50	60	7,5	134																	
		FK 400/9/..									165										73	115														
	FK 400/12/..	170																		75	120															
	PL 400/12/..	194																		82	134															
225S / 225M (60 x 140)	37	FK 450/5/..	450	450	450	400	350	350	6	17	M16	165	25	20	260	100	73	7,5	119																	
		PL 450/5/..										188									83	139														
	FK 450/10/..	176																		80	120															
	PFL 450/9/..	253																		116	207															
	FK 450/12/..	204																		90	152															
	PL 450/12/..	222																		101	175															
250 M (65 x 140) 250 S / 250 M (75 x 140)	55	FK 550/4/..	550	550	550	500	400	450*	6	17	M16	192	26	25	540	97	50	98	7,5	143																
		PL 550/4/..										207										98	161													
	FK 550/6/..	217																			100	170														
315S / 315M (80 x 170)	110	FK 650/3/..										650								650	600	550	550*	8	22	M20	247	32	30	500	100	50	115	7,5	182	
		PL 650/3/..																									260									
355L / 400M (100 x 210)	355	F 800/1/..																									800								800	800
		F 800/3/..	443			205	371																													

\* Passing from dimension B3 to flange radius R = 5.

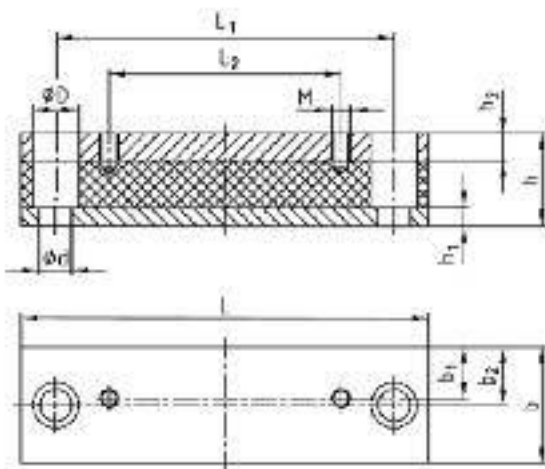








- Damping rods reduce the noise level and dampen vibrations
- Finish machined for motors IMB 35 (DSM), PTFE foot flanges (DSFL) or PTFE foot flanges (DSFS) and PIK oil coolers (DSK)
- Available from stock
- Special lengths or special designs on request
- Also suitable for Nema motors
- Damping rods are made from natural rubber (NR)
- All damping rods are adapted to the weight load that is produced



Design DSM

**Damping rods design DSM for electric motors type IMB 35, protection IP 54**

Damping rod Size	For motor Size	Dimensions [mm]											
		L	L <sub>1</sub>	L <sub>2</sub>	h	h <sub>1</sub>	h <sub>2</sub>	b	b <sub>1</sub>	b <sub>2</sub>	d	D	M
DSM 71	71	196	166	90	40	8	12	50	21	25	14	20	M 6
DSM 80	80	178	148	100	40	8	12	50	22	26	14	20	M 8
DSM 90 S	90 S	196	156	100	40	8	12	50	24,5	25	14	20	M 8
DSM 90 L	90 L	240	205	125	40	8	12	50	24	25	14	20	M 8
DSM 100 L	100 L	240	205	140	40	8	12	50	24	25	14	20	M10
DSM 112 M	112 M	240	205	140	40	8	12	50	20	20	14	20	M10
DSM 132 S	132 S	280	245	140	45	8	12	50	20	25	14	20	M10
DSM 132 M	132 M	280	245	178	45	8	12	50	20	25	14	20	M10
DSM 160 M	160 M	340	300	210	80	15	15	70	28	35	18	26	M12
DSM 160 L	160 L	416	370	254	80	15	15	70	28	35	18	26	M12
DSM 180 M	180 M	416	370	241	80	15	15	70	35	35	18	26	M12
DSM 180 L	180 L	446	400	279	80	15	15	70	35	35	18	26	M12
DSM 200 L	200 L	492	430	305	80	15	15	70	35	35	22	33	M16
DSM 225 S	225 S	492	430	285	80	15	15	70	35	35	22	33	M16
DSM 225 M	225 M	492	445	311	80	15	15	70	35	35	22	33	M16
DSM 250 M	250 M	492	445	349	80	15	15	100	50	50	22	33	M20
DSM 280 S	280 S	614	570	368	80	15	15	100	50	50	22	33	M20
DSM 280 M	280 M	614	570	419	80	15	15	100	50	50	22	33	M20
DSM 315 S	315 S	614	570	406	80	15	15	120	60	60	22	33	M24
DSM 315 M	315 M	614	570	457	80	15	15	120	60	60	22	33	M24
DSM 315 L	315 L	704	660	508	80	15	15	120	60	60	22	33	M24

Other sizes on request.



Hydraulic Components Damping Elements Damping Rings D

Hydraulic Components  
Damping Elements  
Damping Rods

1.9



- Damping rods reduce the noise level and dampen vibrations
- Finish machined for motors IMB 35 (DSM), PTFL foot flanges (DSFL) or PTFS foot flanges (DSFS) and PIK oil coolers (DSK)
- Available from stock
- Special lengths or special designs on request
- Also suitable for Nema motors
- Damping rods are made from natural rubber (NR)
- All damping rods are adapted to the weight load that is produced



Design DSFL



Design DSFS



Design DSK

Damping rods design DSFL for foot flange PTFL

Damping rod Size	For foot flange	Dimensions [mm]											
		L	L <sub>1</sub>	L <sub>2</sub>	h	h <sub>1</sub>	h <sub>2</sub>	b	b <sub>1</sub>	b <sub>2</sub>	c	D	M
DSFL 160	PTFL 160	175	130	50	40	8	12	60	10	25	14	20	M 8
DSFL 200	PTFL 200	175	130	80	40	8	12	60	15	25	14	20	M10
DSFL 250	PTFL 250	230	140	80	40	8	12	60	15	25	14	20	M12
DSFL 300	PTFL 300	270	170	80	40	8	12	50	15	25	14	20	M12
DSFL 350	PTFL 350	305	200	110	60	15	15	70	25	35	16	25	M16

Damping rods design DSFS for foot flange PTFS

Damping rod Size	For foot flange	Dimensions [mm]											
		L	L <sub>1</sub>	L <sub>2</sub>	h	h <sub>1</sub>	h <sub>2</sub>	b	b <sub>1</sub>	b <sub>2</sub>	c	D	M
DSFS 250	PTFS 250	240	140	185	40	8	12	60	17,5	25	13	20	M12
DSFS 300	PTFS 300	280	160	225	40	8	12	50	17,5	25	13	20	M12
DSFS 350	PTFS 350	325	200	265	60	15	15	70	25	35	17	25	M16
DSFS 400	PTFS 400	350	234	300	60	15	15	70	25	35	17	25	M16
DSFS 450	PTFS 450	385	270	335	60	15	15	70	25	35	17	25	M16
DSFS 550	PTFS 550	490	350	415	60	15	15	100	25	50	18	25	M16
DSFS 650	PTFS 650	635	415	495	60	15	15	100	30	50	22	33	M20

Damping rods design DSK for PIK bellhousings with integrated oil cooler with feet

Damping rod Size	For cooler Size	Dimensions [mm]											
		L	L <sub>1</sub>	L <sub>2</sub>	h	h <sub>1</sub>	h <sub>2</sub>	b	b <sub>1</sub>	b <sub>2</sub>	c	D	M
DSK 200	PIK 200	240	210	154,5	40	8	12	50	25	25	14	20	M12
DSK 250	PIK 250	270	240	175,5	40	8	12	50	25	25	14	20	M12
DSK 300	PIK 300	280	250	199,5	45	8	12	50	25	25	14	20	M12
DSK 350	PIK 350	325	295	243,5	60	15	15	70	35	35	14	20	M12

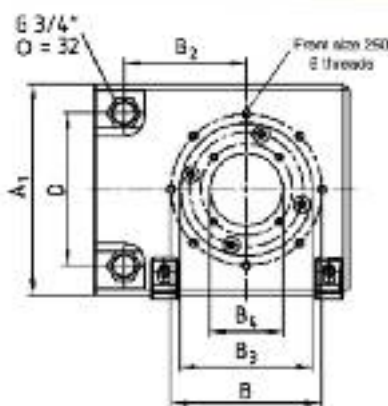
### Hydraulic Components

#### Oil Coolers

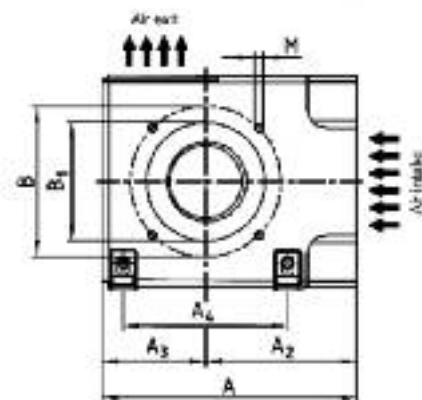
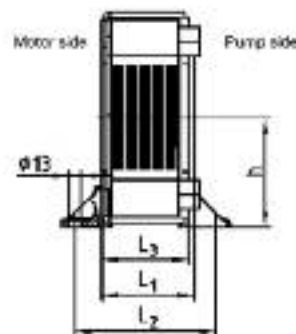
#### Bellhousings with integrated oil Cooler PIK (DBGM)



- Suitable to cool the entire oil volume (return pass)
- Constant air flow rate of the heat exchanger due to a low pressure principle (DBGM)
- Optimum utilization of the high-performance heat exchanger
- Optimum accommodation of housing and fan wheel
- Direct suction of cold ambient air by the heat exchanger
- Heat exchanger can easily be cleaned externally (without any disassembly)



View pump side



View motor side

IEC-motor Size (Shaft)	kW with 1900 1/min	PIK oil cooler type	Dimensions [mm] *															
			L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	A	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	R <sub>ext.</sub>	D	M	h
80 (18x40)	0,55	PIK 200/1/...	100	154,5	94,5	275	225	163	112,5	180	165	130	130	145	20	167	M10	116,5
	0,75	PIK 200/2/...	110	154,5	94,5	276	225	163	112,5	180	165	130	130	145	20	167	M10	116,5
90 S/60 L (24 x 50)	1,1	PIK 200/4/...	124	154,5	94,5	275	225	163	112,5	180	165	130	130	145	20	167	M10	116,5
	1,5		124	154,5	94,5	275	225	163	112,5	180	165	130	130	145	20	167	M10	116,5
100 L/ 112 M (28x40)	2,2	PIK 250/2/...	124	175,5	115,5	308	250	180	125	220	215	180	160	190	20	192	M12	129
	3	PIK 250/4/...	135	175,5	115,5	305	250	180	125	220	215	180	150	190	20	192	M12	129
	4		135	175,5	115,5	305	250	180	125	220	215	180	150	190	20	192	M12	129
132 S/ 132 M (38x60)	5,5	PIK 300/1/...	144	199,5	139,5	359	300	205	154	260	265	230	175	234	30	242	M12	154
	7,5	PIK 300/3/...	155	199,5	139,5	359	300	205	154	260	265	230	175	234	30	242	M12	154
		PIK 300/4/...	168	199,5	139,5	359	300	205	154	260	265	230	175	234	30	242	M12	154
160 M/160 L (42x110)	11	PIK 350/1/...	189	243,5	183,5	405	350	230	175	310	300	250	200	260	50	292	M16	179
	15		189	243,5	183,5	405	350	230	175	310	300	250	200	260	50	292	M16	179
180 M/180 L (48 x 110)	18,5	PIK 350/2/...	204	243,5	183,5	405	350	230	175	310	300	250	200	260	50	292	M16	179
	22		204	243,5	183,5	405	350	230	175	310	300	250	200	260	50	292	M16	179

\* Dimensions following the VDMA guideline 24561.

\*\* In case of an engine speed of > 1900 min<sup>-1</sup> a steel fan must be used.

#### Assembly

For assembly and disassembly of the oil connection pipes please hold up with a hexagon key (max. tightening torque 40 Nm).  
 No reduction of the cross section behind the cooler. Return filter to be installed in front of the cooler (dynamic pressure, danger of bursting).  
 Tensions inside the connection pipes have to be avoided!  
 Vibration of the piping is to be avoided (should possibly be intercepted in front of the connection).  
 Supply and discharge to be chosen alternatively.  
 Please note that several hydraulic systems produce pressure peaks of more than 16 bar in the reverse motion (danger of bursting)!  
 Please consider our mounting instructions under [www.ktr.com](http://www.ktr.com).

PIK	300	3	5	15
Bellhousing with integrated oil cooler	Flange diameter of IEC-motor	Model code (code referring to length)	Internal code	Standard design 11 - with feet 15 - V1 design

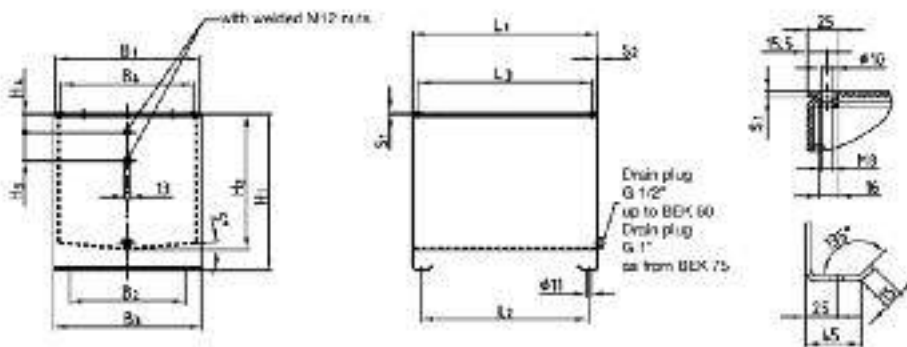
For PIK sizes 200 and 350 please mention the IEC-motor sizes in your order.





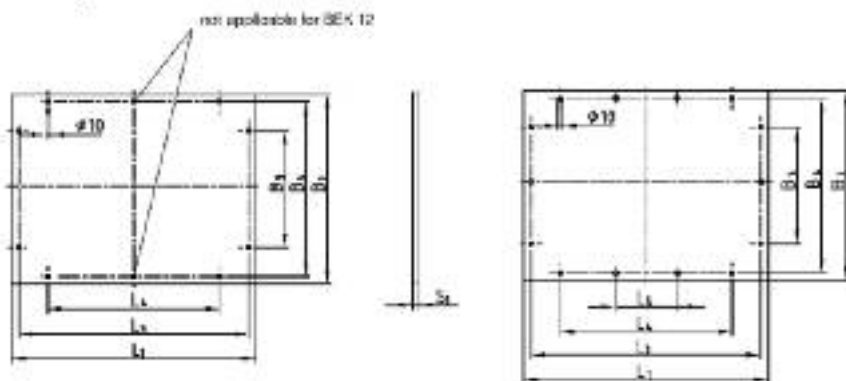


- Tanks made of high-grade steel
- All tanks are sandblasted, inside and outside primed with a high-quality zinc dust paint being resistant to hydraulic oils on a mineral oil basis
- Priming is compatible with other varnish paints
- All tanks are subject to 100 % tightness test
- Cover machining as per customer's request



Order description	Available volume	Weight	Tank dimensions (mm)										Tank completely available from stock
			NG	Litres	kg	L <sub>1</sub>	L <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>
BEK 12	16	17	310	260	298	220	310	275	220	75	50	4	●
BEK 20	26	25	400	350	298	220	310	325	270	78	50	4	●
BEK 30	40	30	470	420	298	220	310	400	345	75	50	4	●
BEK 50	58	39	500	450	388	310	400	420	365	75	50	4	●
BEK 60	68	43	550	500	388	310	400	445	390	75	50	4	●
BEK 75	85	46	560	500	388	310	400	530	475	127	50	4	●
BEK 100	109	57	700	650	388	310	400	530	475	127	50	4	●
BEK 150	175	77	760	700	488	410	500	620	565	127	80	4	●
BEK 225	267	110	900	850	588	510	600	650	595	127	80	4	●
BEK 300	338	127	900	850	688	610	700	700	645	127	80	4	●

up to NG 75 **Cover design E** as from NG 100



Dimension table for cover design "E"									
NG	S <sub>1</sub>	L <sub>1</sub>	B <sub>1</sub>	L <sub>2</sub>	B <sub>2</sub>	L <sub>3</sub>	B <sub>3</sub>	L <sub>4</sub>	H <sub>4</sub>
12	4	310	298	279	257	160	140	+	
20	4	400	298	369	257	250	145	+	
30	5	470	298	439	257	320	145	+	
50	5	500	388	469	357	300	235	+	
60	5	550	388	519	357	400	235	+	
75	5	550	388	519	357	400	235	+	
100	8	700	588	669	357	550	235	184	
150	8	750	488	719	457	600	338	230	
225	8	900	588	869	557	750	438	250	
300	8	900	688	869	657	750	538	250	

● = Standard programme available from stock and in short term.

BEK 100 E E — Cover design „E“  
 — Tank design „E“  
 — Tank size  
 — KTR Euro tank

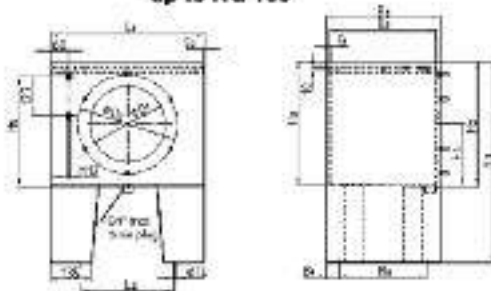


Steel Tanks Series BNK design A, NG 63-1250

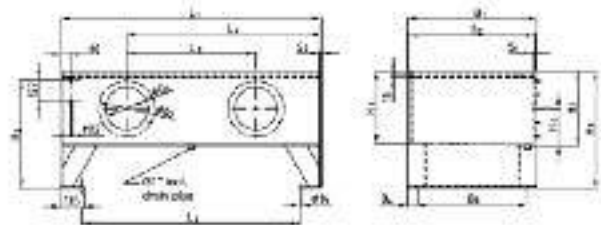


- DIN tanks made of high-grade steel
- All tanks are sandblasted, inside and outside primed with a high-quality zinc dust paint being resistant to hydraulic oils on a mineral oil basis
- Priming is compatible with other varnish paints
- All tanks are subject to 100 % tightness test
- Subsequent assembly of KTR standard separation sheet metals possible for all tank sizes (assembly of separation sheet metals across cleaning hole)
- Cover machining as per customer's request
- Transport eyes on request of customer

up to NG 160



as from NG 250



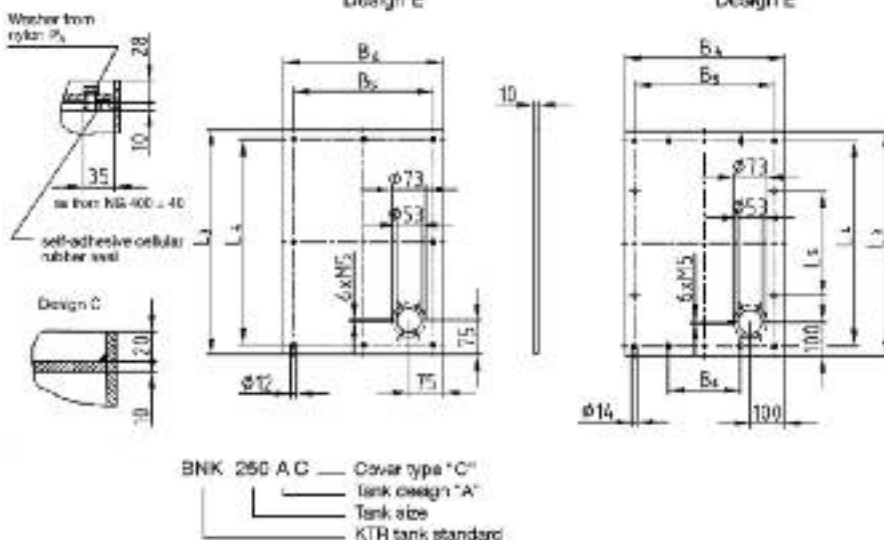
Order description	Avail. vol.	Weight	Tank dimensions [mm]																Cleaning cover		Tank completely available from stock		
			NG	litres	kg	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	F <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	S <sub>1</sub>	S <sub>2</sub>	No.
BNK 63	68	90	508	308	+	+	375	365	265	45	690	410	403	205	280	248	324	3	3	1	V 324-6	●	●
BNK 100	92	76	633	393	+	+	474	460	360	57	690	407	399	205	360	248	324	4	4	1	V 324-6	●	●
BNK 160	152	112	810	570	+	+	604	590	490	57	690	410	403	205	330	248	324	4	4	1	V 324-6	●	●
BNK 250	235	140	1010	770	410	710	704	690	590	57	690	430	418	215	380	248	324	4	4	2	V 324-6	●	●
BNK 400	375	245	1514	1274	750	1132	1128	1090	935	57	690	430	417	215	380	248	324	4	7	2	V 324-6	●	●
BNK 630	585	365	1514	1274	750	1132	999	945	845	57	770	520	504	265	470	350	449	4	7	2	V 448-6	●	●
BNK 800	752	450	2014	1774	1000	1507	914	900	800	57	770	520	504	265	470	350	449	5	7	2	V 448-6	●	●
BNK 1000	945	500	2014	1774	1000	1507	1079	1065	925	57	800	550	521	285	500	350	449	5	7	2	V 448-6	●	●
BNK 1250	1180	600	2014	1774	1000	1507	1349	1335	1235	57	800	550	527	285	500	350	449	5	7	2	V 448-6		

Cover types E and C

Design E

for NG 63-250  
Design E

for NG 400-1250  
Design E



Dimension table for cover type "E"							
NG	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	Number of holes
63	482	448	+	349	305	+	6x
100	675	571	+	440	388	+	6x
160	792	748	+	572	528	+	6x
250	932	848	+	672	633	+	6x
400	1480	1440	480	717	667	222	12x
630	1480	1440	480	627	577	262	12x
800	1990	1940	647	660	630	277	12x
1000	1990	1940	647	1045	995	332	12x
1250	1990	1940	647	1215	1205	422	12x

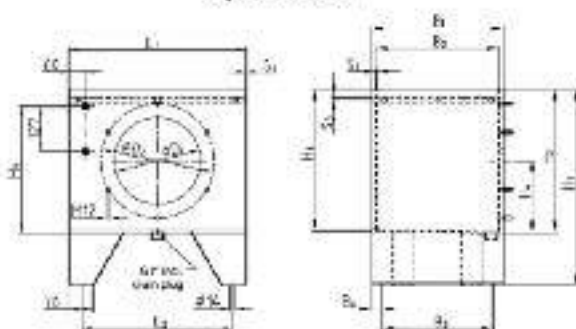
● = Standard programme available from stock and in short term.



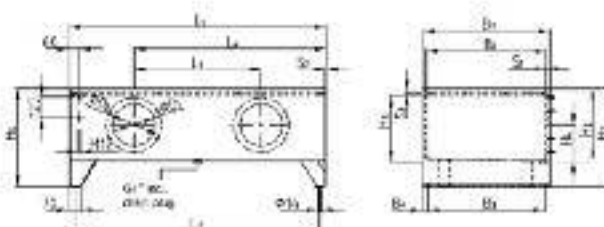


- Tanks made of high-grade steel
- All tanks are sandblasted, inside and outside primed with a high-quality zinc dust paint being resistant to hydraulic oils or a mineral oil basis
- Priming is compatible with other varnish paints
- All tanks are subject to 100 % tightness test
- Subsequent assembly of KTR standard separation sheet metals possible for all tank sizes (assembly of separation sheet metals across cleaning hole)
- Cover machining as per customer's request
- Transport eyes on request of customer

up to NG 200



as from NG 250

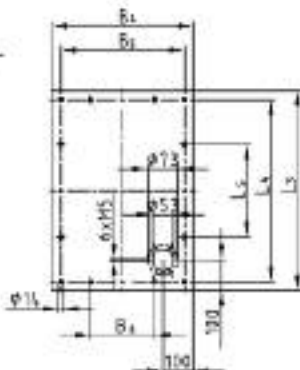
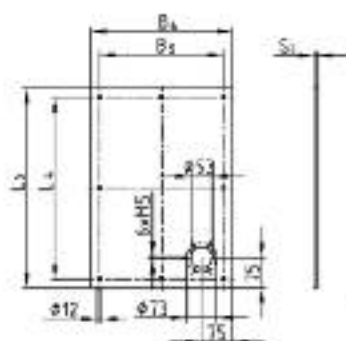
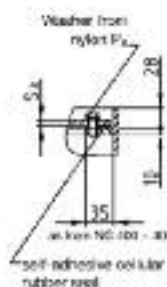


Order description	Avail. vol.	Weight	Tank dimensions (mm)																		Cleaning cover		Tank completely available from stock Tank cover: E	
			NG	Litres	kg	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	D <sub>1</sub>	D <sub>2</sub>	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	No.	Type
BSK 40	35	33	400	420	+	+	375	385	315	30	430	280	273	100	230	200	250	3	3	6	1	V 260-4	•	•
BSK 63	50	58	500	420	+	+	375	365	315	30	590	410	403	205	360	248	324	3	3	8	1	V 324-6	•	•
BSK 100	80	63	600	550	+	+	474	460	414	30	590	407	398	205	357	248	324	4	4	8	1	V 324-6	•	•
BSK 160	152	88	810	730	+	+	604	590	544	30	590	410	400	205	360	248	324	4	4	8	1	V 324-6	•	•
BSK 200	184	101	900	820	+	+	654	640	594	30	590	410	399	205	360	248	324	4	4	8	1	V 324-6	•	•
BSK 250	235	120	1010	930	410	710	704	680	644	30	590	430	415	215	360	248	324	4	4	7	2	V 324-6	•	•
BSK 300	272	141	1200	1120	410	809	714	700	654	30	590	412	400	206	362	248	324	4	4	7	2	V 324-6	•	•
BSK 400	375	201	1514	1434	750	1132	749	735	680	30	590	430	417	215	380	248	324	4	7	7	2	V 324-6	•	•

Cover type E

for NG 40-300

for NG 400



Dimension table for cover type "E"								
NG	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	B <sub>4</sub>	B <sub>5</sub>	B <sub>6</sub>	S <sub>3</sub>	Number of holes
40	482	448	±	340	305	±	6	8x
63	482	448	±	349	305	±	6	8x
100	615	571	±	442	308	±	6	8x
160	782	740	±	572	528	±	6	8x
200	882	838	±	622	579	±	6	8x
250	992	940	±	672	620	±	7	8x
300	1190	1146	±	832	638	±	7	8x
400	1480	1440	±	992	822	±	7	12x

• = Standard programme available from stock and in short term

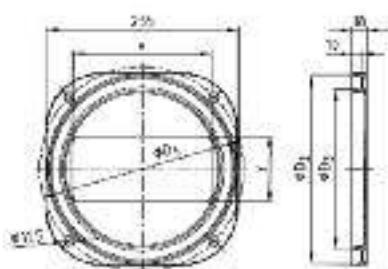
BSK 250 S E — Cover type "E"  
 — Tank design "S"  
 — Tank size  
 — KTR standard tank

Hydraulic Components Accessories for Oil Tanks Cleaning Covers

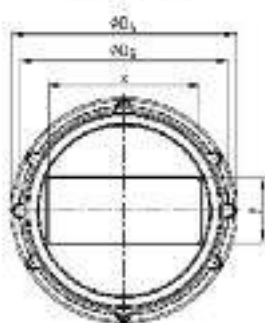


- Cleaning covers V250-4 PRD for steel tanks with low height
- Cleaning covers V324 and V449 according to DIN 24339
- Made from aluminium
- Screw tightening torque for all cleaning cover sizes 10 Nm at the maximum
- On request available with logo
- Spline seal PRD from perbunane or Viton
- Max. permissible pressure = 0,5 bar
- Gaskets type PRD for all cleaning covers
- Gaskets type PRD made from perbunane (NBR), made from Viton on request

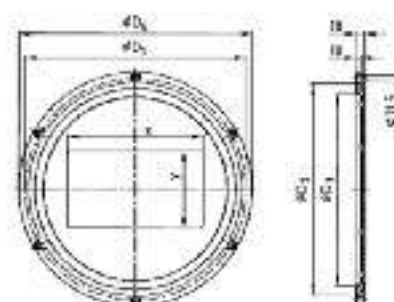
Cleaning cover design  
V250-4 PRD



Cleaning cover  
DIN 24339



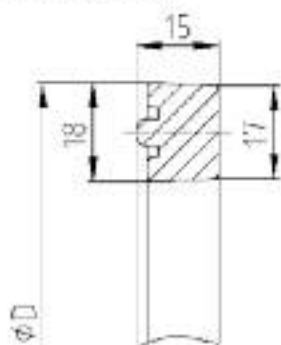
Cleaning cover



Cleaning cover	Dimensions [mm]							
	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>	D <sub>5</sub>	Number of bores	X	Y
V250-4 PRD	11,5	229	193	-	250	4	170	80
V324-6 DG *	11,5	304	268	350	324	6	235	100
V324-6 Mould *	11,5	304	268	350	324	6	276	158
V449-6	11,5	429	303	475	449	6	276	158
VE30-6	11,5	505	471	580	530	6	276	158
V530-12	11,5	505	471	580	530	12	276	158

\* Cover with 4-hole fixing on request.

Gaskets for cleaning covers



Gaskets for cleaning covers Size		For cleaning cover	D [mm]
PRD 193 NBR	PRD 193 Viton	V250-4 PRD	229
PRD 268 NBR	PRD 268 Viton	V324	304
PRD 393 NBR	PRD 393 Viton	V449	429
PRD 471 NBR	-	V530	507

Cleaning cover V449-6 with fastening reference circle Ø 449:  
Spline seal for cleaning cover V449-6:  
Logos are also possible in smaller quantities for all cleaning covers on request.

Order designation:  
V449-6  
PRD 393 NBR