PERMCO

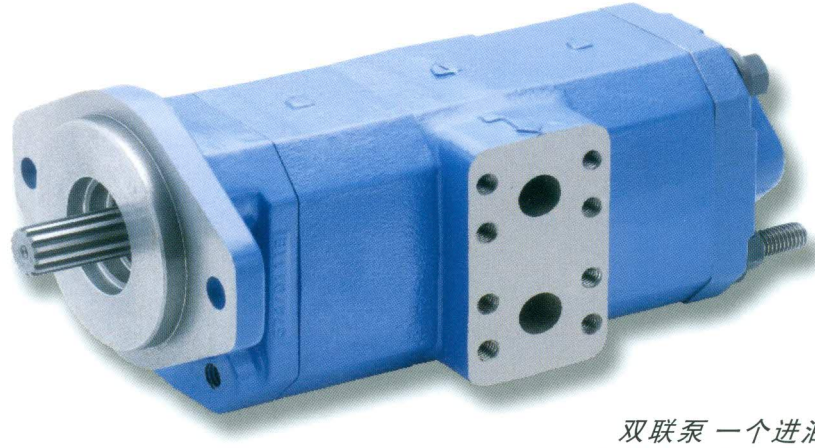
124 系列

齿轮泵及马达

高压小排量滑动轴承齿轮泵及马达

PUMPS AND MOTORS

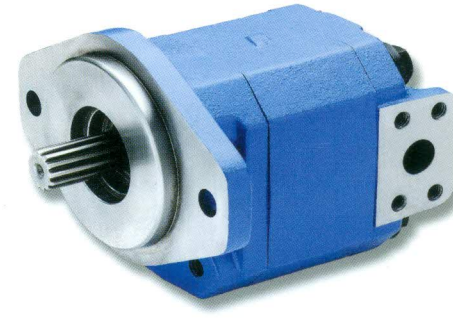
HIGH PRESSURE SMALL DISPLACEMENT SLEEVE BUSHING PUMPS AND MOTORS



双联泵 一个进油口/两个出油口
TANDEM SINGLE INLET/DUAL OUTLET

特点

- ❑ 结构小巧的重载轴套设计
- ❑ 排量从10.16至40.62ml/r
- ❑ 工作压力可达到28Mpa
- ❑ 工作转速可达3000r/min
- ❑ 流量可达114LPM
- ❑ 销轴联接的高强度铸铁结构
- ❑ 100%出厂检测
- ❑ 高强度合金钢齿轮和齿轮轴
- ❑ 有背泵和风扇马达可供选择
- ❑ 油口、安装形式和轴有多种设计可供选择
- ❑ 在整个工作过程中，压力平衡耐磨侧板可使泵始终保持高效率输出
- ❑ 有单进油/单出油、单进油/双出油的中间体可供选择



单泵
SINGLE

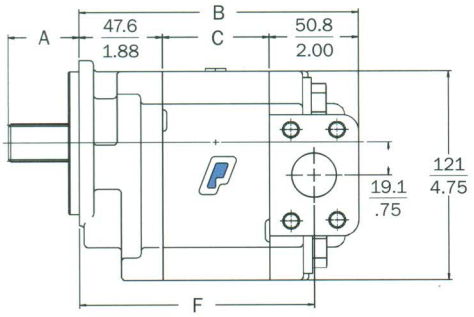
FEATURES

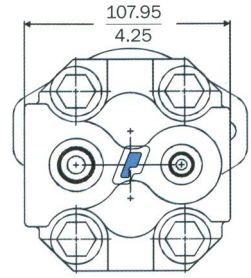
- ❑ Heavy duty sleeve bushing design in a small frame size
- ❑ Cubic inch displacement from 0.62 through 2.48
- ❑ Working pressure up to 4000 PSI
- ❑ Speeds up to 3000 RPM
- ❑ Flows up to 30 GPM
- ❑ Doweled and high strength cast iron construction
- ❑ 100% factory tested
- ❑ High strength alloy steel gear and shaft sets
- ❑ Available as a piggy back pump and fan drive motor
- ❑ A wide range of porting, mounting and shaft options available
- ❑ Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges
- ❑ Both single inlet/single outlet and single inlet/dual outlet bearing carriers available

NFPA
Solutions through motion technology

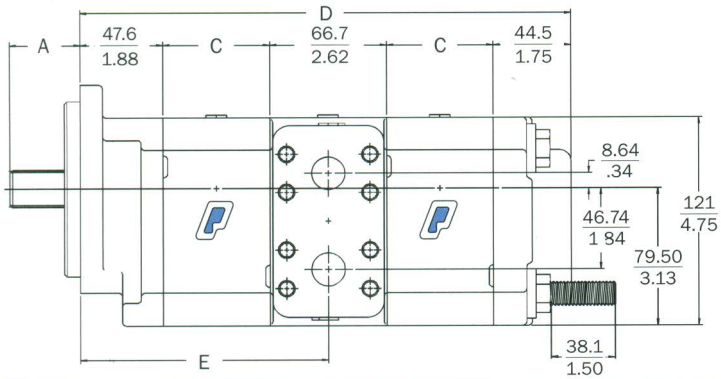
The Sensible Choice

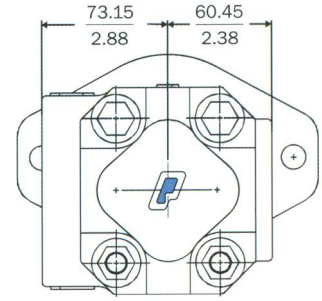
124 系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)





A. SAE "B" shaft shown, other shafts available
图示为SAE "B"轴伸，轴伸型式有多种选择
B. 4.27" plus gear width
108.56 mm 加齿轮宽度
C. 0.4" plus gear width
10.16 mm 加齿轮宽度
D. 7.05" plus total gear width
179.12 mm 加总齿轮宽度
E. 3.59" plus front gear width
91.11 mm 加前齿轮宽度
F. 3.27" plus gear width
83.16 mm 加齿轮宽度





性能 PERFORMANCE

齿轮泵 Gear Pumps

Displacement 排量 ml/rev	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Working Speed RPM 工作转速 转/分 Max 最高	Min 最低	Input Power 输入功率 KW
10.16	1/2"	25	28	3000	600	13.4
15.23	3/4"	25	28	3000	600	20.0
20.31	1"	25	28	3000	600	26.7
25.39	1-1/4"	25	28	3000	600	33.4
30.47	1-1/2"	21	25	3000	600	33.7
35.54	1-3/4"	18	21	3000	600	33.7
40.62	2"	18	21	3000	600	38.5

齿轮马达 Gear Motors

Displacement 排量 ml/rev	Input Flow 输入流量 2000 RPM LPM	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Output Speed RPM 输出转速 转/分 Max 最高	Min 最低	Output Power 2000 RPM 输出功率 KW	Output Torque 输出扭矩 N-m
10.16	22.6	1/2"	21	25	3000	600	6.4	30.5
15.23	33.8	3/4"	21	25	3000	600	9.6	45.8
20.31	45.1	1"	21	25	3000	600	12.8	61.1
25.39	56.4	1-1/4"	21	25	3000	600	16.0	76.3
30.47	67.7	1-1/2"	18	21	3000	600	16.5	78.5
35.54	79.0	1-3/4"	18	21	3000	600	19.2	91.6
40.62	90.3	2"	18	21	3000	600	21.9	104.7

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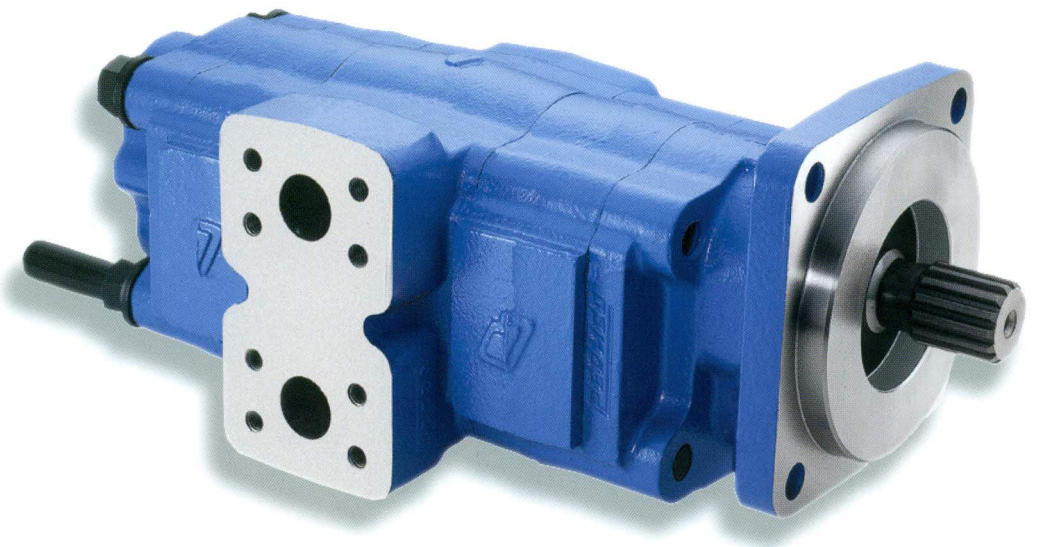
257 系列

齿轮泵及马达

高压中排量滑动轴承齿轮泵及马达

PUMPS AND MOTORS

HIGH PRESSURE MEDIUM DISPLACEMENT SLEEVE BUSHING PUMPS AND MOTORS



双联泵　一个进油口/两个出油口
TANDEM SINGLE INLET/DUAL OUTLET

特点

- ❑ 结构小巧的重载轴套设计
- ❑ 排量从21.1至105.3ml/r
- ❑ 工作压力可达到31Mpa
- ❑ 工作转速可达2500r/min
- ❑ 流量可达250LPM
- ❑ 销轴联接的高强度铸铁结构
- ❑ 100%出厂检测
- ❑ 高强度合金钢齿轮和齿轮轴
- ❑ 油口、安装形式和轴有多种设计可供选择
- ❑ 在整个工作过程中，压力平衡耐磨侧板可使泵始终保持高效率输出
- ❑ 有单进油/单出油、单进油/双出油的中间体可供选择

FEATURES

- ❑ Heavy duty sleeve bushing design in a small frame size
- ❑ Cubic inch displacement from 1.29 through 6.43
- ❑ Working pressure up to 4500 PSI
- ❑ Speeds up to 2500 RPM
- ❑ Flows up to 66 GPM
- ❑ Doweled and high strength cast iron construction
- ❑ 100% factory tested
- ❑ High strength alloy steel gear and shaft sets
- ❑ A wide range of porting, mounting and shaft options available
- ❑ Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges
- ❑ Both single inlet/single outlet and single inlet/dual outlet bearing carriers available

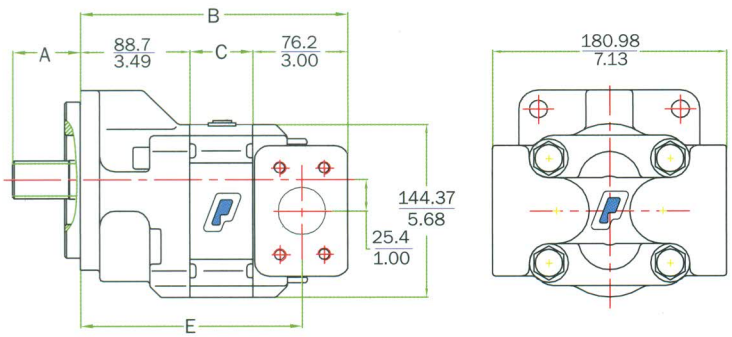


单泵
SINGLE

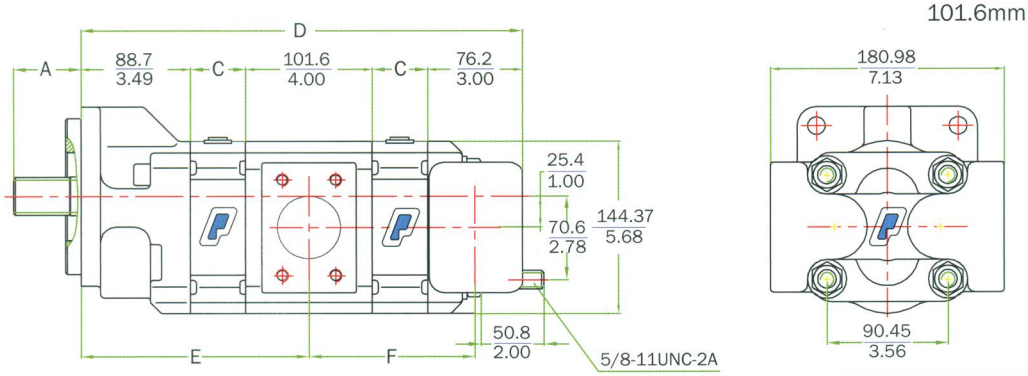
NFPA
Solutions through motion technology

The Sensible Choice

257 系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)



A. SAE "B" shaft shown, other shafts available
图示为SAE"B"轴伸, 轴伸型式有多种选择
B. 6.99" plus gear width
177.6 mm 加齿轮宽度
C. 0.5" plus gear width
12.7 mm 加齿轮宽度
D. 11.49" plus total gear width
291.9 mm 加总齿轮宽度
E. 5.49"/5.99" plus front gear width
139.5/152.2 mm 加前齿轮宽度
F. 4" plus rear gear width
101.6mm 加后齿轮宽度



性能 PERFORMANCE

齿轮泵 Gear Pumps

Displacement 排量 ml/rev	Gear Width 齿宽 Inch 英 寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Working Speed RPM 工作转速 转/分 Max 最高	Min 最低	Input Power 输入功率 KW
21.1	1/2"	28	31	2500	600	25.9
31.6	3/4"	28	31	2500	600	38.8
42.1	1"	28	31	2500	600	51.7
52.6	1-1/4"	28	31	2500	600	64.6
63.2	1-1/2"	25	28	2500	600	69.3
73.7	1-3/4"	21	25	2500	600	67.9
84.2	2"	21	25	2500	600	77.6
94.8	2-1/4"	18	21	2500	600	74.8
105.3	2-1/2"	18	21	2500	600	83.1

齿轮马达 Gear Motors

Displacement 排量 ml/rev	Input Flow 输入流量 2000 RPM LPM	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Output Speed RPM 输出转速 转/分 Max 最高	Min 最低	Output Power 2000 RPM 输出功率 KW	Output Torque 输出扭矩 N-m
21.1	46.9	1/2"	25	28	2500	600	15.8	75.5
31.6	70.2	3/4"	25	28	2500	600	23.7	113.1
42.1	93.6	1"	25	28	2500	600	31.6	150.7
52.6	116.9	1-1/4"	25	28	2500	600	39.5	188.2
63.2	140.4	1-1/2"	21	25	2500	600	39.8	190.0
73.7	163.8	1-3/4"	18	21	2500	600	39.8	189.9
84.2	187.1	2"	18	21	2500	600	45.5	217.0
94.8	210.7	2-1/4"	18	21	2500	600	51.2	244.3
105.3	234.0	2-1/2"	18	21	2500	600	56.9	271.3

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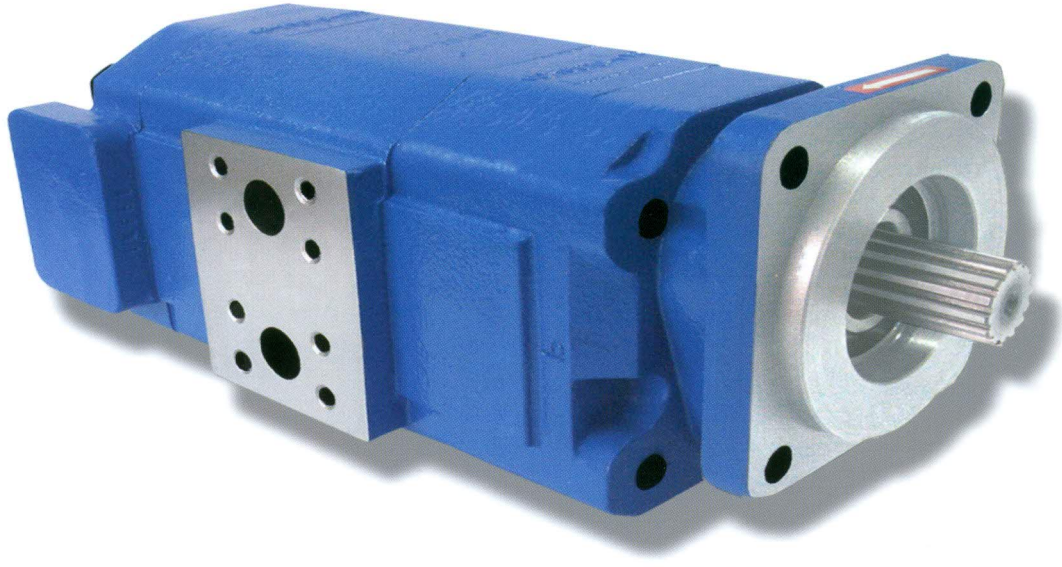
360 系列

齿轮泵及马达

高压大排量滑动轴承齿轮泵及马达

PUMPS AND MOTORS

HIGH PRESSURE LARGE DISPLACEMENT SLEEVE BUSHING PUMPS AND MOTORS



双联泵　一个进油口/两个出油口
TANDEM　SINGLE INLET/DUAL OUTLET

特点

- ❑ 结构小巧的重载轴套设计
- ❑ 排量从59.81至149.53ml/r
- ❑ 工作压力可达到28Mpa
- ❑ 工作转速可达2500r/min
- ❑ 流量可达355LPM
- ❑ 销轴联接的高强度铸铁结构
- ❑ 100%出厂检测
- ❑ 高强度合金钢齿轮和齿轮轴
- ❑ 油口、安装形式和轴有多种设计可供选择
- ❑ 在整个工作过程中，压力平衡耐磨侧板可使泵始终保持高效率输出
- ❑ 有单进油/单出油、单进油/双出油的中间体可供选择



单泵
SINGLE

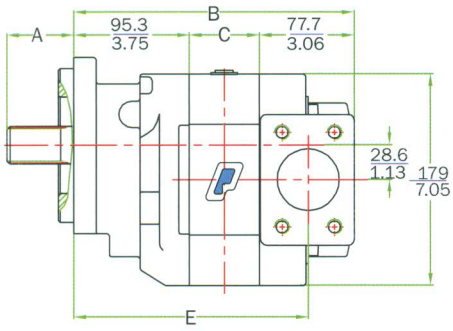
FEATURES

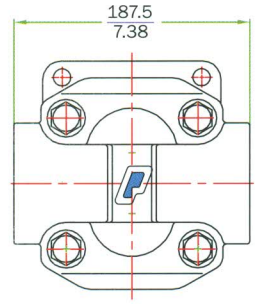
- ❑ Heavy duty sleeve bushing design in a small frame size
- ❑ Cubic inch displacement from 3.65 through 9.13
- ❑ Working pressure up to 4000 PSI
- ❑ Speeds up to 2500 RPM
- ❑ Flows up to 94 GPM
- ❑ Doweled and high strength cast iron construction
- ❑ 100% factory tested
- ❑ High strength alloy steel gear and shaft sets
- ❑ A wide range of porting, mounting and shaft options available
- ❑ Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges
- ❑ Both single inlet/single outlet and single inlet/dual outlet bearing carriers available

NFPA
Solutions through motion technology

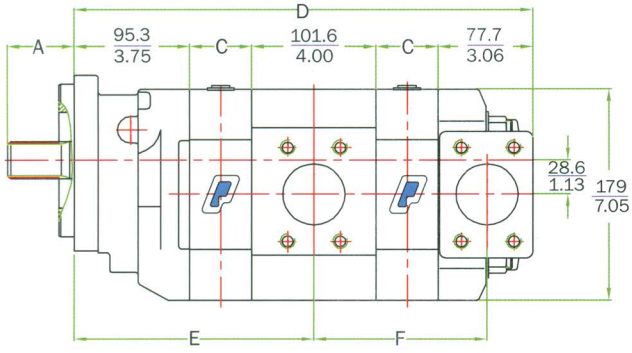
The Sensible Choice

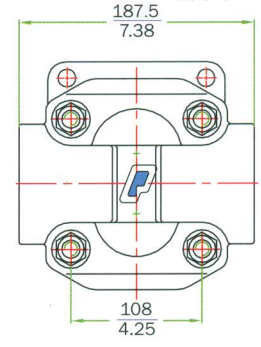
360 系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)





A. SAE “B” shaft shown, other shafts available
图示为SAE“B”轴伸, 轴伸型式有多种选择
B. 7.31” plus gear width
185.7 mm 加齿轮宽度
C. 0.5” plus gear width
12.7 mm 加齿轮宽度
D. 11.81” plus total gear width
300.0 mm 加总齿轮宽度
E. 5.81”/6.25” plus front gear width
148/158.8 mm 加前齿轮宽度
F. 4.07” plus rear gear width
103.5mm 加后齿轮宽度





性能 PERFORMANCE

齿轮泵 Gear Pumps

Displacement 排量 ml/rev	Gear Width 齿宽 Inch 英 寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Working Speed 工作转速 转/分 Max 最高	Min 最低	Input Power 输入功率 KW
59.81	1”	25	28	2500	600	65.6
74.76	1-1/4”	25	28	2500	600	82.0
89.72	1-1/2”	23	25	2500	600	90.5
104.67	1-3/4”	23	25	2500	600	105.6
119.62	2”	21	23	2500	600	110.2
134.57	2-1/4”	21	23	2500	600	123.9
149.53	2-1/2”	21	23	2500	600	137.8

齿轮马达 Gear Motors

Displacement 排量 ml/rev	Input Flow 输入流量 2000 RPM LPM	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Output Speed RPM 输出转速 转/分 Max 最高	Min 最低	Output Power 2000 RPM 输出功率 KW	Output Torque 输出扭矩 N-m
59.81	132.9	1”	21	25	2500	600	37.7	179.8
74.76	166.1	1-1/4”	21	25	2500	600	47.1	224.7
89.72	199.4	1-1/2”	21	25	2500	600	56.5	269.7
104.67	232.6	1-3/4”	21	25	2500	600	65.9	314.6
119.62	265.8	2”	18	21	2500	600	64.6	308.2
134.57	299.0	2-1/4”	18	21	2500	600	72.7	346.7
149.53	332.2	2-1/2”	18	21	2500	600	80.7	385.3

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Permco TianJin Fluidpower Mfg. Co. Ltd.
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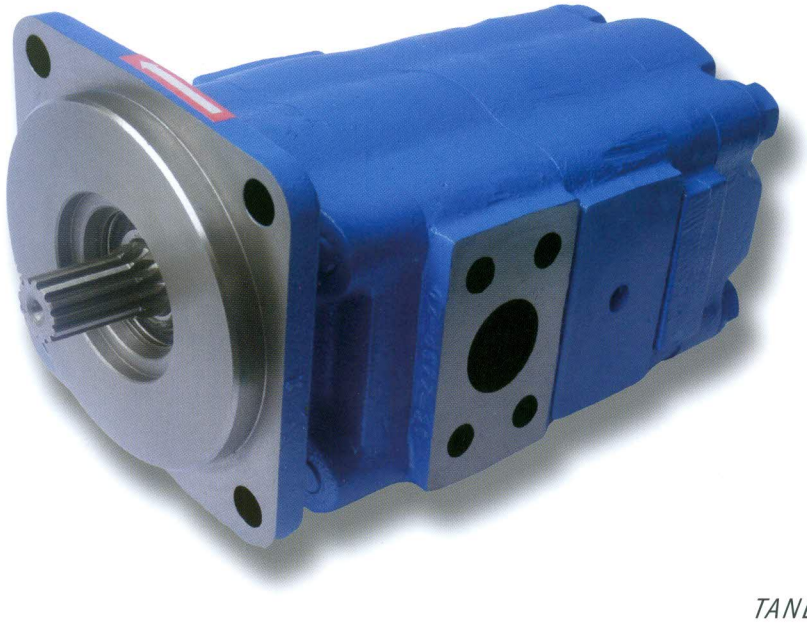
3100 系列

齿轮泵及马达

高压滚动轴承齿轮泵及马达

PUMPS AND MOTORS

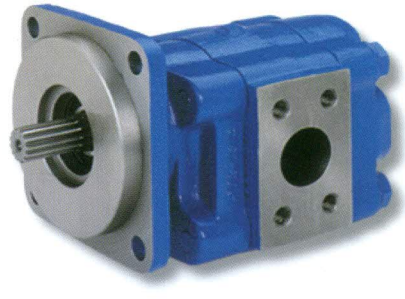
HIGH PRESSURE ROLLER BEARING PUMPS AND MOTORS



双联齿轮泵
TANDEM GEAR PUMP

特点

- ❑ 本系列高压齿轮泵最高压力可达25MPa
- ❑ 排量从16.4ml/r-65.5ml/r
- ❑ 关键件由美国进口，提高了泵的可靠性
- ❑ 特有的二次密封结构能有效地提高泵的性能，已获得美国和中国的专利
- ❑ 先进的侧板结构，特殊的表面处理，耐压抗磨性强，已获得美国和中国的专利
- ❑ 泵和马达均有多种联接形式，联接尺寸符合SAE标准
- ❑ 可按用户要求设计成单联泵或多联泵



单泵
SINGLE

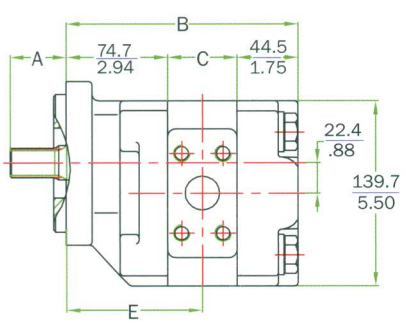
FEATURES

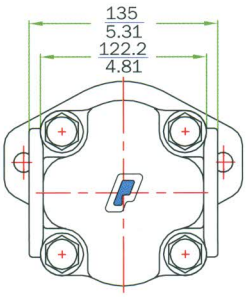
- ❑ High pressure gear pump with maximum pressure up to 3625 PSI
- ❑ Displacements from 1.00 cubic inch to 4.00 cubic inch
- ❑ U.S imported bearings, thrust plates. seals etc, improves reliability
- ❑ Patented US and China ring seal design improves performance and efficiency
- ❑ Patented US and China thrust plate design with special surface treatment and wear coating supports high pressure applications
- ❑ A wide range of porting, mounting and shaft options available for SAE and European standards
- ❑ Customized single and multiple units options available

NFPA
Solutions through motion technology

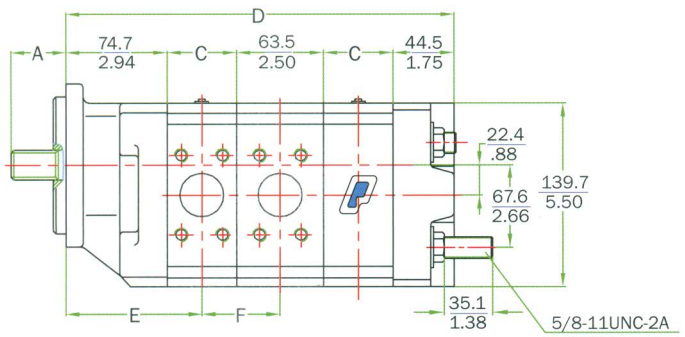
The Sensible Choice

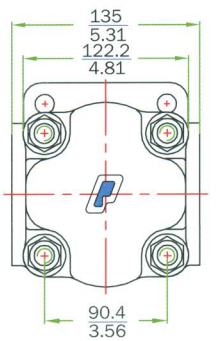
3100系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)





A. SAE "B" shaft shown, other shafts available
图示为SAE"B"轴伸, 轴伸型式有多种选择
B. 5.44" plus gear width
138.3 mm 加齿轮宽度
C. 0.75" plus gear width
19.1 mm 加齿轮宽度
D. 8.69" plus total gear width
220.9 mm 加总齿轮宽度
E. 3.32" plus half front gear width
84.25 mm 加前齿轮宽度的一半
F. 1.625" plus half front gear width
41.3mm 加前齿轮宽度的一半





性能 PERFORMANCE

齿轮泵 Gear Pumps

Displacement 排量 ml/rev	Gear Width 齿宽 Inch 英 寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Working Speed RPM 工作转速 转/分 Max 最高	Min 最低	Input Power 输入功率 KW
16.4	1/2"	21	25	2400	600	14.6
24.6	3/4"	21	25	2400	600	21.8
32.8	1"	21	25	2400	600	29.0
41.0	1-1/4"	21	25	2400	600	36.3
49.2	1-1/2"	21	25	2400	600	43.5
57.3	1-3/4"	18	21	2400	600	43.4
65.5	2"	18	21	2400	600	49.6

齿轮马达 Gear Motors

Displacement 排量 ml/rev	Input Flow 输入流量 2000 RPM LPM	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Output Speed RPM 输出转速 转/分 Max 最高	Min 最低	Output Power 2000 RPM 输出功率 KW	Output Torque 输出扭矩 N-m
16.4	36.4	1/2"	21	25	2200	600	10.3	49.3
24.6	54.7	3/4"	21	25	2200	600	15.5	73.9
32.8	72.9	1"	21	25	2200	600	20.7	98.6
41.0	91.1	1-1/4"	21	25	2200	600	25.8	123.2
49.2	109.3	1-1/2"	21	25	2200	600	31.0	147.9
57.3	127.3	1-3/4"	18	21	2200	600	30.9	147.6
65.5	145.6	2"	18	21	2200	600	35.4	168.8

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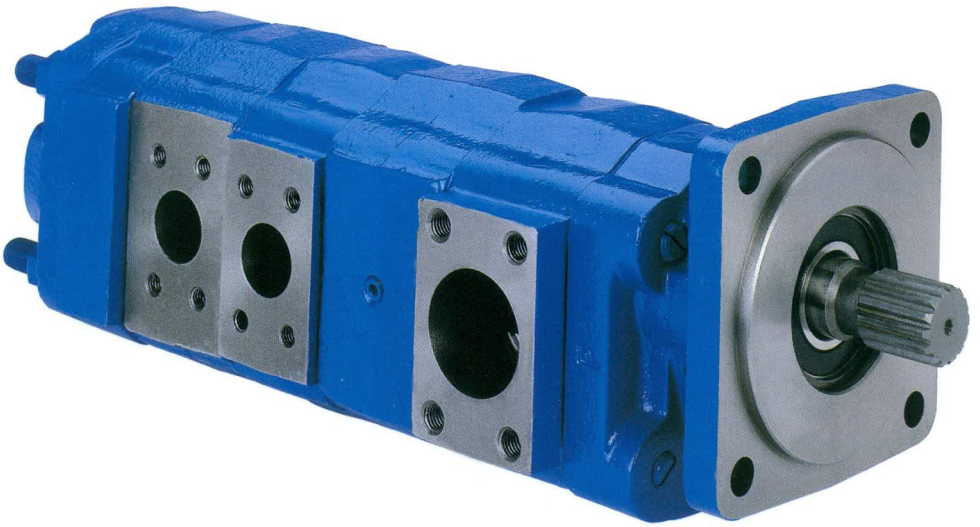
5100 系列

齿轮泵及马达

高压滚动轴承齿轮泵及马达

PUMPS AND MOTORS

HIGH PRESSURE ROLLER BEARING PUMPS AND MOTORS



双联齿轮泵
TANDEM GEAR PUMP

特点

- ❑ 本系列高压齿轮泵最高压力可达25MPa
- ❑ 排量从21.1ml/r-105.4ml/r
- ❑ 关键件由美国进口，提高了泵的可靠性
- ❑ 特有的二次密封结构能有效地提高泵的性能，已获得美国和中国的专利
- ❑ 先进的侧板结构，特殊的表面处理，耐压抗磨性强，已获得美国和中国的专利
- ❑ 泵和马达均有多种联接形式，联接尺寸符合SAE标准
- ❑ 可按用户要求设计成单联泵或多联泵



单泵
SINGLE

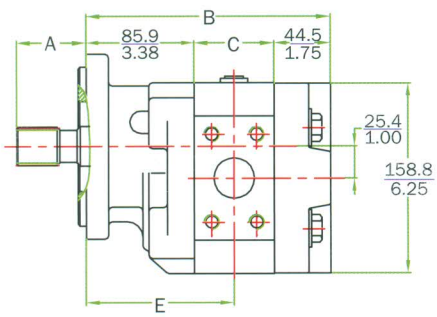
FEATURES

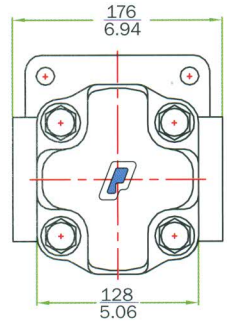
- ❑ High pressure gear pump with maximum pressure up to 3625 PSI
- ❑ Displacements from 1.28 cubic inch to 6.43 cubic inch
- ❑ U.S imported bearings, thrust plates, ring seals etc, improves reliability
- ❑ Patented US and China ring seal design improves performance and efficiency
- ❑ Patented US and China thrust plate design with special surface treatment and wear coating supports high pressure applications
- ❑ A wide range of porting, mounting and shaft options available for SAE and European standards
- ❑ Customized single and multiple unit options available

NFPA
Solutions through motion technology

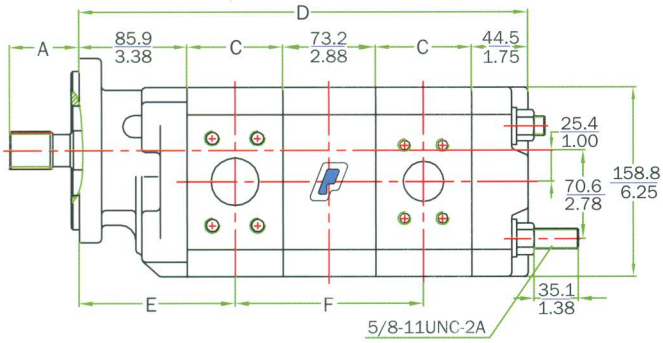
The Sensible Choice

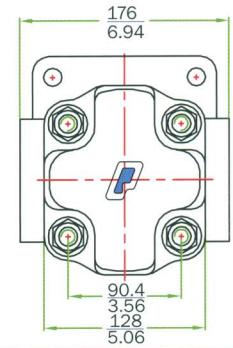
5100 系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)





A. SAE "B" shaft shown, other shafts available
图示为SAE "B"轴伸，轴型式有多种选择
B. 5.88" plus gear width
149.5 mm 加齿轮宽度
C. 0.75" plus gear width
19.1 mm 加齿轮宽度
D. 9.51" plus total gear width
241.8 mm 加总齿轮宽度
E. 3.76" plus half front gear width
95.4 mm 加前齿轮宽度的一半
F. 3.63" plus half total gear width
92.3mm 加总齿轮宽度的一半





性能 PERFORMANCE

齿轮泵 Gear Pumps

Displacement 排量 ml/rev	Gear Width 齿宽 Inch 英 寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Working Speed RPM 工作转速 转/分 Max 最高	Min 最低	Input Power 输入功率 KW
21.1	1/2"	21	25	2400	600	18.7
31.6	3/4"	21	25	2400	600	27.9
42.2	1"	21	25	2400	600	37.3
52.7	1-1/4"	21	25	2400	600	46.6
63.2	1-1/2"	21	25	2400	600	55.9
73.8	1-3/4"	21	25	2400	600	65.3
84.3	2"	21	25	2400	600	74.5
94.9	2-1/4"	18	21	2400	600	71.9
105.4	2-1/2"	18	21	2400	600	79.9

齿轮马达 Gear Motors

Displacement 排量 ml/rev	Input Flow 输入流量 2000 RPM LPM	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Output Speed RPM 输出转速 转/分 Max 最高	Min 最低	Output Power 2000 RPM 输出功率 KW	Output Torque 输出扭矩 N-m
21.1	46.9	1/2"	21	25	2200	600	13.3	63.4
31.6	70.2	3/4"	21	25	2200	600	19.9	95.0
42.2	93.8	1"	21	25	2200	600	26.6	126.9
52.7	117.1	1-1/4"	21	25	2200	600	33.2	158.4
63.2	140.4	1-1/2"	21	25	2200	600	39.8	190.0
73.8	164.0	1-3/4"	21	25	2200	600	46.5	221.8
84.3	187.3	2"	21	25	2200	600	53.1	253.4
94.9	210.9	2-1/4"	18	21	2200	600	51.2	244.5
105.4	234.2	2-1/2"	18	21	2200	600	56.9	271.6

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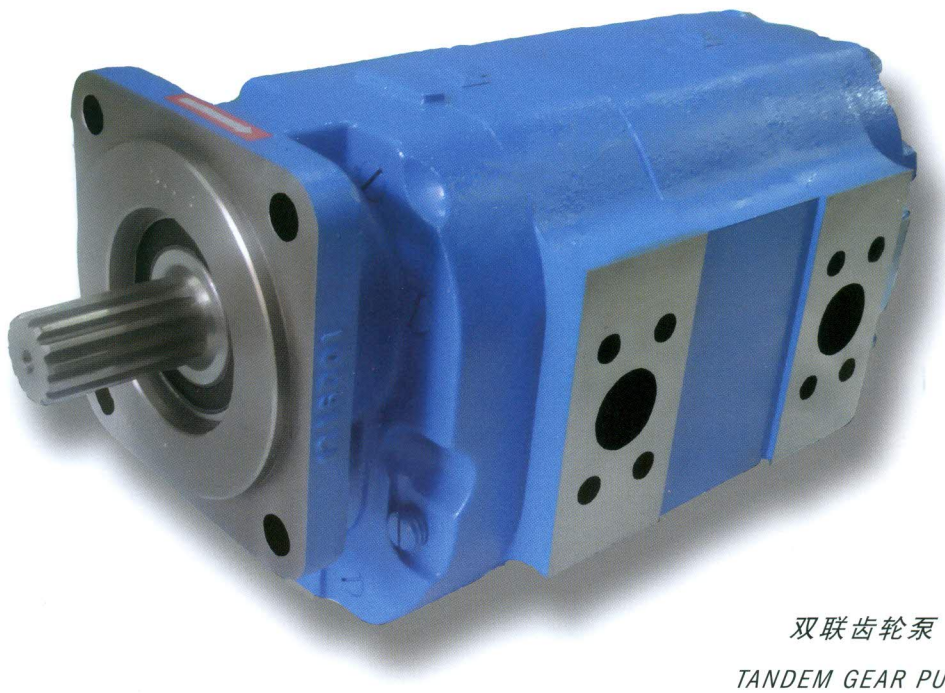
7600 系列

齿轮泵及马达

高压大排量滚动轴承齿轮泵及马达

PUMPS AND MOTORS

HIGH PRESSURE LARGE DISPLACEMENT ROLLER BEARING PUMPS AND MOTORS

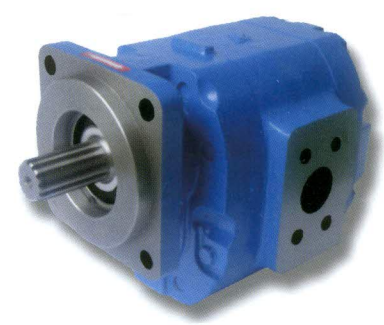


双联齿轮泵

TANDEM GEAR PUMP

特点

- ❑ 本系列高压齿轮泵最高压力可达25MPa
- ❑ 排量从33.1ml/r-198.8ml/r
- ❑ 使用美国专利压力控制滚动轴承使泵的寿命提高30%
- ❑ 关键件由美国进口，提高了泵的可靠性
- ❑ 特有的二次密封结构能有效地提高泵的性能，已获得美国和中国的专利
- ❑ 先进的侧板结构，特殊的表面处理，耐压抗磨性强，已获得美国和中国的专利
- ❑ 泵和马达均有多种联接形式，联接尺寸符合SAE标准
- ❑ 可按用户要求设计成单联泵或多联泵



单泵

SINGLE

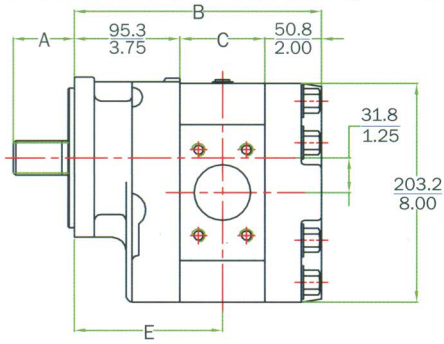
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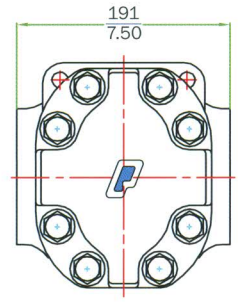
- ❑ High pressure gear pump with maximum pressure up to 3625 PSI
- ❑ Displacements from 2.02 cubic inch to 12.13 cubic inch
- ❑ US patent “controlled stress” Roller Bearings extends pump life by 30%
- ❑ US imported bearings, thrust plates, seals etc, improves reliability
- ❑ Patented US and China ring seal design improves performance and reliability
- ❑ Patented US and China thrust plate design with special surface treatment and wear coating supports high pressure applications
- ❑ A wide range of porting, mounting and shaft options available for SAE and European standards
- ❑ Customized single and multiple unit options available

NFPA
Solutions through motion technology

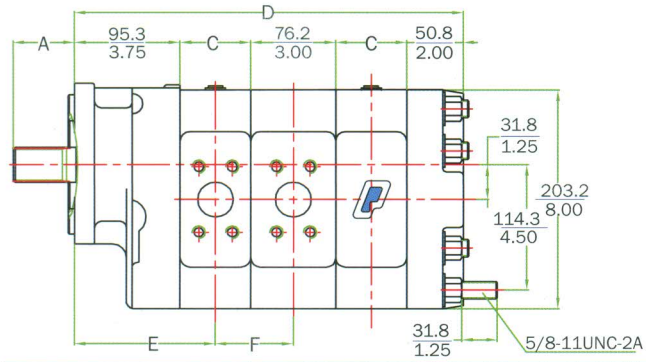
The Sensible Choice

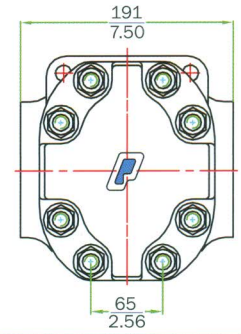
7600系列尺寸数据 (mm/in) DIMENSIONAL DATA (mm/in)





A. SAE "B" shaft shown, other shafts available
图示为SAE"B"轴伸, 轴伸型式有多种选择
B. 6.75" plus gear width
171.5 mm 加齿轮宽度
C. 1" plus gear width
25.4 mm 加齿轮宽度
D. 10.75" plus total gear width
273.1 mm 加总齿轮宽度
E.4.25" plus half front gear width
108 mm 加前齿轮宽度的一半
F. 2" plus half front gear width
50.8mm 加前齿轮宽度的一半





性能 PERFORMANCE

齿轮泵 Gear Pumps

Displacement 排量 ml/rev	Gear Width 齿宽 Inch 英 寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Working Speed RPM 工作转速 转/分 Max 最高	Min 最低	Input Power 输入功率 KW
33.1	1/2"	21	25	2200	600	26.8
49.7	3/4"	21	25	2200	600	40.3
66.3	1"	21	25	2200	600	53.7
82.8	1-1/4"	21	25	2200	600	67.1
99.4	1-1/2"	21	25	2200	600	80.6
116.0	1-3/4"	21	25	2200	600	94.0
132.5	2"	21	25	2200	600	107.4
149.1	2-1/4"	21	25	2200	600	120.8
165.7	2-1/2"	21	25	2200	600	134.3
182.2	2-3/4"	18	21	2200	600	126.6
198.8	3"	18	21	2200	600	138.1

齿轮马达 Gear Motors

Displacement 排量 ml/rev	Input Flow 输入流量 2000 RPM LPM	Gear Width 齿宽 Inch 英寸	Rated Pressure 额定压力 MPa	Max Pressure 最高压力 MPa	Output Speed RPM 输出转速 转/分 Max 最高	Min 最低	Output Power 2000 RPM 输出功率 KW	Output Torque 输出扭矩 N-m
33.1	73.6	1/2"	21	25	2200	600	20.9	99.5
49.7	110.4	3/4"	21	25	2200	600	31.3	149.4
66.3	147.3	1"	21	25	2200	600	41.8	199.3
82.8	184.0	1-1/4"	21	25	2200	600	52.2	248.9
99.4	220.9	1-1/2"	21	25	2200	600	62.6	298.8
116.0	257.8	1-3/4"	21	25	2200	600	73.1	348.7
132.5	294.4	2"	21	25	2200	600	83.5	399.5
149.1	331.3	2-1/4"	21	25	2200	600	94.0	448.2
165.7	368.2	2-1/2"	21	25	2200	600	104.4	498.1
182.2	404.9	2-3/4"	18	21	2200	600	98.4	469.5
198.8	441.8	3"	18	21	2200	600	107.4	512.2

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