

DESIGN ENVELOPE 6800Q | QUADRAPLEX BOOSTER PACKAGES | (4 DUTY PUMPS OR 3 DUTY + 1 STANDBY PUMP) | SUBMITTAL

File No: 100.6131N
Date: MAY 31, 2024
Supersedes: NEW
Date: NEW

Job: _____ Representative: _____

Order No: _____ Date: _____

Contractor: _____ Submitted by: _____ Date: _____

Engineer: _____ Approved by: _____ Date: _____

BOOSTER PACKAGE DESIGN DATA

Tag: _____ Model: _____

Operation: 4 Duty 3 Duty + 1 Standby

Total Flow: _____ L/s (m³/hr) Flow per Pump: _____ L/s (m³/hr)

Suction (Supply) Pressure: _____ m (bar)

NPSHr at Design: _____ m (bar)

Boost Pressure (Head): _____ m (bar)

Discharge Pressure: _____ m (bar)

Total Installed Power: _____ kW

Absorbed Power at Design: _____ kW

Efficiency at Design: _____ %

Liquid: Water Max Temperature: 65°C ± 2 (150°F ± 4)

Other: _____ Max Temperature: _____ °F (°C)

Specific Gravity: _____ Viscosity: _____ lbf*s/ft² (Pa*s)

NOTE: Test tolerance according to ISO 9906 Grade 2B
±8% on measured flow and ±5% on measured head

BOOSTER PACKAGE CONSTRUCTION DATA

Pump Type: 4700Q (Vertical Multi Stage)

Pump Construction: Full Stainless Steel

Piping Material: 304 Stainless Steel

Base & Stanchion Material: 304 Stainless Steel

Suction Valve Type:

- Ball Valve (less than DN50)
- Butterfly Valve (greater than or equal to DN50)

Discharge Valve Type:

- Check (NRV) + Ball Valve (less than DN50)
- Check (NRV) + Butterfly Valve (greater than or equal to DN50)

Suction Connection Orientation: Right Left

Discharge Connection Orientation: Right Left

System Connection Type: Flanged

Suction Flange Type: PN16

Discharge Flange Type: PN16
 PN25

MOTOR DATA

Motor Type (Efficiency): Induction (IE3)

Permanent Magnet (IE5)

Voltage: 06: 400-415/3/50 03: 380/3/50

05: 400/3/50 08: 440/3/50

Phase: 3 **Frequency:** 60 Hz **Enclosure:** TEFC

NOTE:

- Booster electrical supply is 50Hz

DRIVE DATA

Drive Type: VFD (Induction Motors)

ECM (Permanent Magnet Motors)

Enclosure: IP55

EMI/RFI Control: Integrated filter designed to meet EN61800-3

Harmonic Suppression: Integrated DC link reactors (in all VFDs and 112 frame Permanent Magnet Motors)

Cooling: Fan-cooled through back channel

Ambient temperature:

-10°C to +45°C (-14°F to +113°F): Permanent Magnet models

-10°C to +40°C (-14°F to +104°F): IVS models up to 1000m (3280 ft) above sea level

CONTROL PANEL DATA

CE labelled

IP 54 Enclosure

PLC Controlled

4.3" Color Touchscreen

Door Interlocked Main Disconnect

MPCB (motor protection circuit breaker)

Power on Indication

Motor Run Indication

Virtual Hand-Off-Auto (HOA) for each pump

Flash Memory Storage

Modbus RTU serial communication

CONTROLS CAPABILITIES**Safety Features:**

- High Suction Pressure Shutdown
- Low Suction Shutdown w/ Auto Restart
- End of Curve Protection
- Soft Fill Mode
- Emergency Power Mode

Conformance to ASHRAE 90.1 Section 10.4:

- No-flow shutdown
- Pressure setback mode

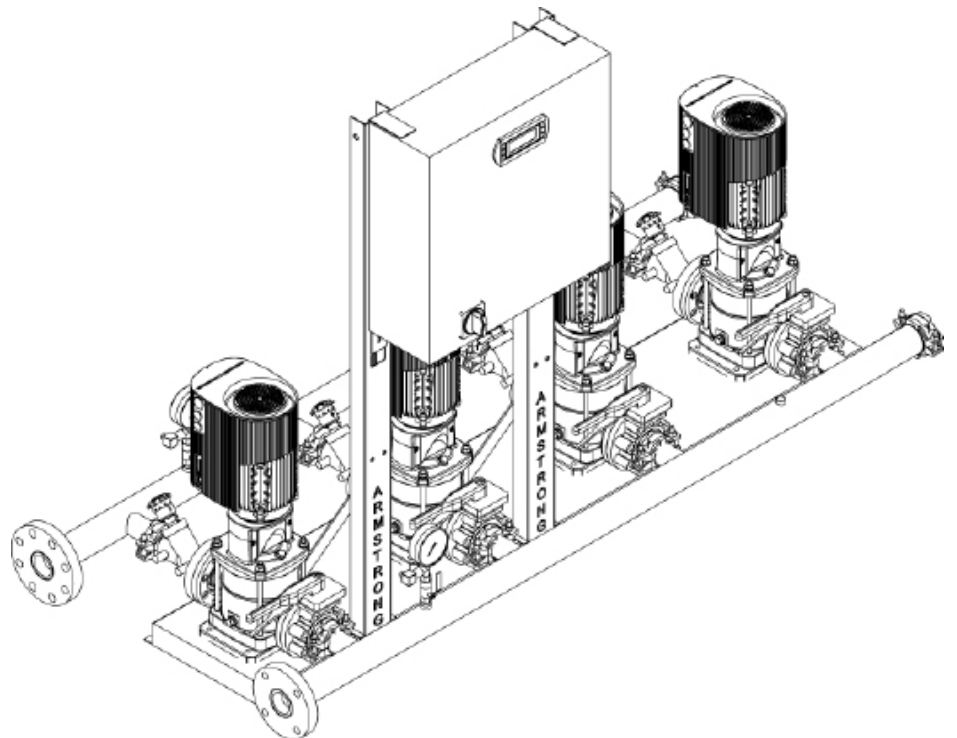
Convenience Features:

- Field Adjustable Set Points, Alarms and Timers
- Alternate Setpoints
- Auto Alternation of Pumps
- Minimal Run Timer
- Pump On Delay Timer
- Pump Switch Over (in case of lead pump failure)
- No-flow pressure optimization

OPTIONAL

BMS Communication Protocol: BACnet/IP
 BACnet MS/TP

- Low Suction Level Shutdown
- Float Switch
- Remote Pressure Transducer
- Redundant Pressure Transducer
- Certified Test Report



DESIGN ENVELOPE (PERMANENT MAGNET) CAPABILITY DATA

DESIGN ENVELOPE MODEL		VMS MODEL	POWER PER PUMP (kw)	MAX WORKING PRESSURE (bar)	MAX FLOW L/s (m ³ /hr)		MAX HEAD m (bar)	BEP EFFICIENCY (%)	MOTOR FRAME	DRIVER TYPE
DUTY-DUTY	DUTY-STANDBY				DUTY-DUTY	DUTY-STANDBY				
QPR-415021-XXD	QPR-315021-XXS	QVMS 15:02-1A	2.2	16	29.7 (107)	22.3 (80.2)	12.7 (1.2)	64.4%	90	DEPM
QPR-415020-XXD	QPR-315020-XXS	QVMS 15:02A	4	16	29.7 (107)	22.3 (80.2)	25.3 (2.5)	64.4%	90	DEPM
QPR-415030-XXD	QPR-315030-XXS	QVMS 15:03A	5.5	16	29.7 (107)	22.3 (80.2)	38 (3.7)	64.4%	90	DEPM
QPR-415040-XXD	QPR-315040-XXS	QVMS 15:04A	7.5	16	29.7 (107)	22.3 (80.2)	50.6 (5)	64.4%	112	DEPM
QPR-415060-XXD	QPR-315060-XXS	QVMS 15:06A	11	16	29.7 (107)	22.3 (80.2)	76 (7.4)	64.4%	112	DEPM
QVR-415080-XXD	QVR-315080-XXS	QVMS 15:08A	15	25	29.1 (104.9)	21.9 (78.7)	97.4 (9.5)	64.4%	160M	DE IVS
QVR-415100-XXD	QVR-315100-XXS	QVMS 15:10A	18.5	25	29.1 (104.9)	21.9 (78.7)	121.7 (11.9)	64.4%	160L	DE IVS
QPR-420010-XXD	QPR-320010-XXS	QVMS 20:01A	2.2	16	35.6 (128)	26.7 (96)	14 (1.4)	63.0%	90	DEPM
QPR-420020-XXD	QPR-320020-XXS	QVMS 20:02A	4	16	33.9 (122)	25.4 (91.5)	25.5 (2.5)	63.0%	90	DEPM
QPR-420030-XXD	QPR-320030-XXS	QVMS 20:03A	5.5	16	32.5 (116.8)	24.3 (87.6)	35.1 (3.4)	63.0%	90	DEPM
QPR-420040-XXD	QPR-320040-XXS	QVMS 20:04A	7.5	16	32.8 (118.2)	24.6 (88.6)	47.8 (4.7)	63.0%	112	DEPM
QPR-420060-XXD	QPR-320060-XXS	QVMS 20:06A	11	25	32.5 (116.8)	24.3 (87.6)	70.1 (6.9)	63.0%	112	DEPM
QVR-420080-XXD	QVR-320080-XXS	QVMS 20:08A	15	25	33.1 (119.3)	24.9 (89.5)	97.5 (9.6)	63.0%	160M	DE IVS
QVR-420100-XXD	QVR-320100-XXS	QVMS 20:10A	18.5	25	32.9 (118.5)	24.7 (88.9)	120.3 (11.8)	63.0%	160L	DE IVS
QPR-432011-XXD	QPR-332011-XXS	QVMS 32:01-1A	3	16	54.9 (197.5)	41.1 (148.1)	8.3 (0.8)	69.0%	90	DEPM
QPR-432010-XXD	QPR-332010-XXS	QVMS 32:01A	4	16	54.9 (197.5)	41.1 (148.1)	16 (1.6)	71.6%	90	DEPM
QPR-432022-XXD	QPR-332022-XXS	QVMS 32:02-2A	5.5	16	54.9 (197.5)	41.1 (148.1)	16.7 (1.6)	69.0%	90	DEPM
QPR-432032-XXD	QPR-332032-XXS	QVMS 32:03-2A	7.5	16	54.9 (197.5)	41.1 (148.1)	32.8 (3.2)	71.6%	112	DEPM
QPR-432042-XXD	QPR-332042-XXS	QVMS 32:04-2A	11	16	54.9 (197.5)	41.1 (148.1)	48.9 (4.8)	71.6%	112	DEPM
QVR-432052-XXD	QVR-332052-XXS	QVMS 32:05-2A	15	16	53.8 (193.6)	40.3 (145.2)	62.5 (6.1)	71.6%	160M	DE IVS
QVR-432060-XXD	QVR-332060-XXS	QVMS 32:06A	18.5	25	53.7 (193.2)	40.2 (144.9)	92.3 (9.1)	71.6%	160L	DE IVS
QVR-432082-XXD	QVR-332082-XXS	QVMS 32:08-2A	22	25	53.8 (193.8)	40.4 (145.4)	109.2 (10.7)	71.6%	180M	DE IVS
QVR-432102-XXD	QVR-332102-XXS	QVMS 32:10-2A	30	25	54.1 (194.7)	40.6 (146.1)	141.3 (13.9)	71.6%	200L	DE IVS
QPR-442011-XXD	QPR-342011-XXS	QVMS 42:01-1A	5.5	16	74.3 (267.4)	55.7 (200.6)	17.3 (1.7)	70.6%	90	DEPM
QPR-442010-XXD	QPR-342010-XXS	QVMS 42:01A	7.5	16	74.3 (267.4)	55.7 (200.6)	20.7 (2)	70.6%	112	DEPM
QPR-442022-XXD	QPR-342022-XXS	QVMS 42:02-2A	11	16	74.3 (267.4)	55.7 (200.6)	34.7 (3.4)	70.6%	112	DEPM
QVR-442020-XXD	QVR-342020-XXS	QVMS 42:02A	15	16	72.8 (262.2)	54.6 (196.7)	39.8 (3.9)	70.6%	160M	DE IVS
QVR-442030-XXD	QVR-342030-XXS	QVMS 42:03A	18.5	16	72.8 (262.2)	54.6 (196.7)	59.8 (5.9)	70.6%	160L	DE IVS
QVR-442042-XXD	QVR-342042-XXS	QVMS 42:04-2A	22	25	71.8 (258.5)	53.9 (193.9)	71.7 (7)	70.6%	180M	DE IVS
QVR-442050-XXD	QVR-342050-XXS	QVMS 42:05A	30	25	72.1 (259.7)	54.1 (194.8)	97.7 (9.6)	70.6%	200L	DE IVS
QVR-442060-XXD	QVR-342060-XXS	QVMS 42:06A	37	25	73.1 (263.3)	54.9 (197.5)	120.5 (11.8)	70.6%	200L	DE IVS
QVR-442070-XXD	QVR-342070-XXS	QVMS 42:07A	45	25	73.3 (263.7)	54.9 (197.8)	141 (13.8)	70.6%	225M/S	DE IVS
QPR-465011-XXD	QPR-365011-XXS	QVMS 65:01-1A	7.5	16	102.5 (369.1)	76.9 (276.8)	15.9 (1.6)	67.0%	112	DEPM
QPR-465010-XXD	QPR-365010-XXS	QVMS 65:01A	11	16	102.9 (370.3)	77.1 (277.7)	25.1 (2.5)	68.3%	112	DEPM
QVR-465022-XXD	QVR-365022-XXS	QVMS 65:02-2A	15	16	100.5 (361.9)	75.4 (271.4)	30.6 (3)	67.0%	160M	DE IVS
QVR-465020-XXD	QVR-365020-XXS	QVMS 65:02AE	18.5	16	99.8 (359.4)	74.9 (269.5)	47.2 (4.6)	68.3%	160L	DE IVS
QVR-465032-XXD	QVR-365032-XXS	QVMS 65:03-2A	22	16	101.1 (363.9)	75.8 (272.9)	55.4 (5.4)	68.2%	180M	DE IVS
QVR-465030-XXD	QVR-365030-XXS	QVMS 65:03A	30	16	101.4 (365.1)	76.1 (273.9)	73.1 (7.2)	68.3%	200L	DE IVS
QVR-465042-XXD	QVR-365042-XXS	QVMS 65:04-2A	37	16	101.1 (363.9)	75.8 (272.9)	79.9 (7.8)	68.2%	200L	DE IVS
QVR-465052-XXD	QVR-365052-XXS	QVMS 65:05-2A	45	16	101.1 (363.9)	75.8 (272.9)	104.5 (10.2)	68.2%	225M/S	DE IVS

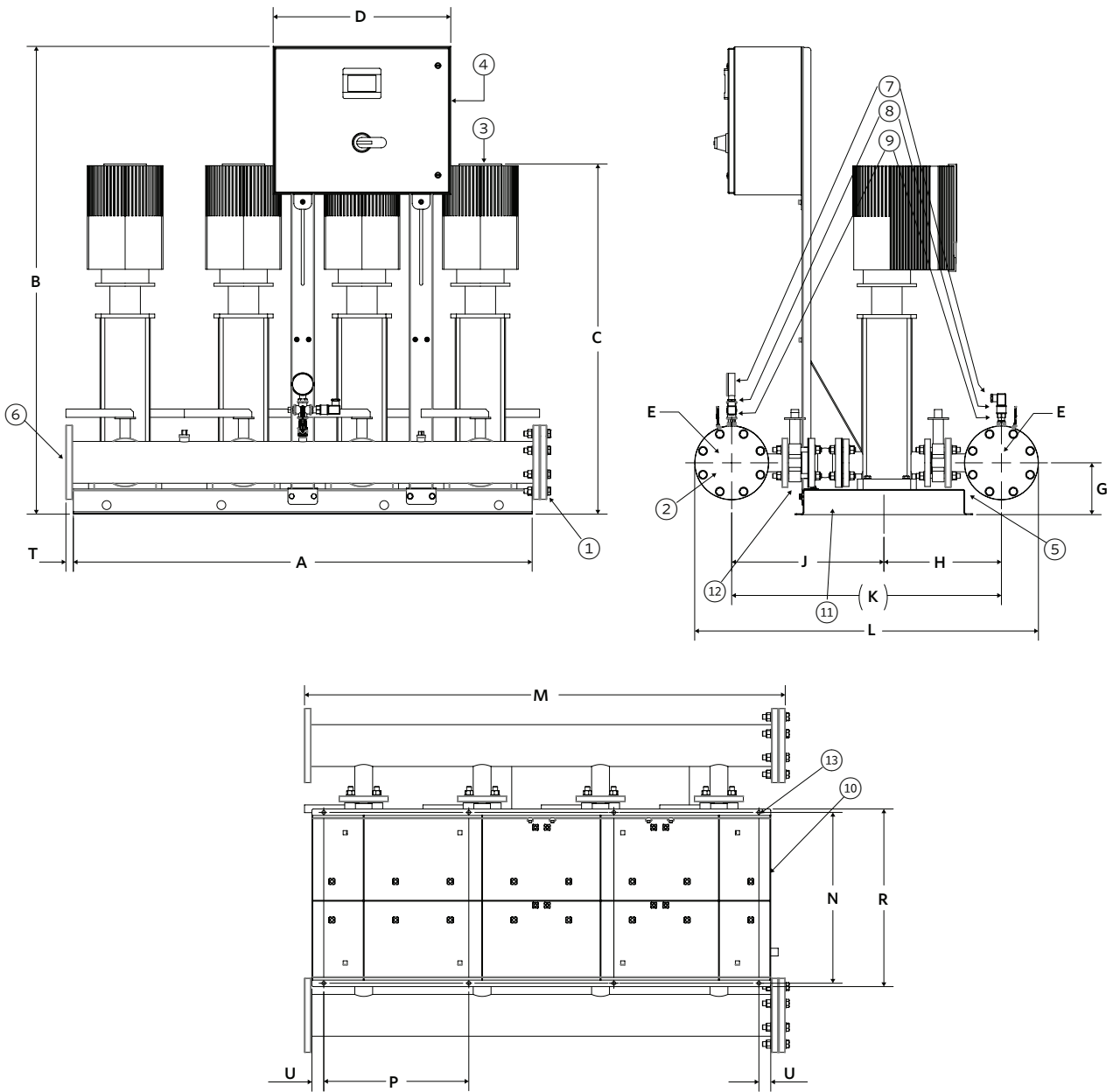
Notes:

- 1 -xx(D or S) in the model number represents booster voltage.
400-415/3/50: -06(D or S)
380/3/50: -03(D or S)
400/3/50: -05(D or S)
440/3/50: -08(D or S)

DESIGN ENVELOPE (PERMANENT MAGNET) CAPABILITY DATA										
DESIGN ENVELOPE MODEL		VMS MODEL	POWER PER PUMP (kw)	MAX WORKING PRESSURE (bar)	MAX FLOW L/s (m ³ /hr)		MAX HEAD m (bar)	BEP EFFICIENCY (%)	MOTOR FRAME	DRIVER TYPE
DUTY-DUTY	DUTY-STANDBY				DUTY-DUTY	DUTY-STANDBY				
QPR-485011-XXD	QPR-385011-XXS	QVMS 85:01-1A	11	16	137.1 (493.7)	102.8 (370.3)	8.2 (0.8)	65.2%	112	DEPM
QVR-485010-XXD	QVR-385010-XXS	QVMS 85:01A	15	16	134.1 (482.9)	100.6 (362.2)	19.4 (1.9)	66.4%	160M	DE IVS
QVR-485022-XXD	QVR-385022-XXS	QVMS 85:02-2A	18.5	16	134.5 (484.1)	100.8 (363.1)	15.8 (1.5)	65.3%	160L	DE IVS
QVR-485021-XXD	QVR-385021-XXS	QVMS 85:02-1A	22	16	134.9 (485.6)	101.2 (364.2)	27.8 (2.7)	64.8%	180M	DE IVS
QVR-485020-XXD	QVR-385020-XXS	QVMS 85:02A	30	16	134.9 (485.6)	101.2 (364.2)	39.2 (3.8)	66.4%	200L	DE IVS
QVR-485031-XXD	QVR-385031-XXS	QVMS 85:03-1A	37	16	134.9 (485.6)	101.2 (364.2)	47.5 (4.7)	64.8%	200L	DE IVS
QVR-485042-XXD	QVR-385042-XXS	QVMS 85:04-2A	45	16	135.2 (486.9)	101.4 (365.2)	54.9 (5.4)	65.1%	225M/S	DE IVS

Notes:

- 1 -xx(D or S) in the model number represents booster voltage.
 400-415/3/50: -06(D or S)
 380/3/50: -03(D or S)
 400/3/50: -05(D or S)
 440/3/50: -08(D or S)



Quadraplex Booster Package

ITEM	DESCRIPTION
①	304 Stainless steel suction header
②	304 Stainless steel discharge header
③	Stainless Steel pump with integrated controls (IVS or DEPM)
④	Control Panel with PLC & Full Colour Touch HMI
⑤	Suction isolation valve
⑥	Flanged connections
⑦	Pressure gauge
⑧	Pressure transducer
⑨	Pressure gauge isolation valve
⑩	Stainless steel base and panel support
⑪	Discharge check (NRV) valve
⑫	Discharge isolation valve
⑬	6x12.50 bolting /AV mounting holes

Notes:

- 1 Standard right hand orientation illustrated
- 2 All pumps are the same

DESIGN ENVELOPE MODEL (DUTY-DUTY)	VMS MODEL (DUTY-STANDBY)	A*	B*	C**	D*	HEADER FLANGE RATING	HEADER SIZE E	G*	H**	J**	K*	L*	M*	N**	P**	R**	T*	U*	WEIGHT kg
QPR-415021-XXD	QVMS 15:021-XXS	1550.0	1560.0	807.0	600.0	PN16	DN 125	175.0	387.0	524.2	911.2	1161.2	1624.0	577.0	490.0	600.0	25.0	40.0	452
QPR-415020-XXD	QVMS 15:020-XXS	1550.0	1560.0	817.0	600.0	PN16	DN 125	175.0	387.0	524.2	911.2	1161.2	1624.0	577.0	490.0	600.0	25.0	40.0	512
QPR-415030-XXD	QVMS 15:030-XXS	1550.0	1560.0	882.0	600.0	PN16	DN 125	175.0	387.0	524.2	911.2	1161.2	1624.0	577.0	490.0	600.0	25.0	40.0	574
QPR-415040-XXD	QVMS 15:040-XXS	1550.0	1560.0	1005.0	600.0	PN16	DN 125	175.0	387.0	524.2	911.2	1161.2	1624.0	577.0	490.0	600.0	25.0	40.0	646
QPR-415060-XXD	QVMS 15:060-XXS	1550.0	1560.0	1183.0	600.0	PN16	DN 125	175.0	387.0	524.2	911.2	1161.2	1624.0	577.0	490.0	600.0	25.0	40.0	964
QVR-415080-XXD	QVMS 15:080-XXS	1550.0	1560.0	1420.0	600.0	PN25	DN 125	175.0	387.0	524.2	911.2	1181.2	1628.0	577.0	490.0	600.0	25.0	40.0	1358
QVR-415100-XXD	QVMS 15:100-XXS	1550.0	1560.0	1510.0	600.0	PN25	DN 125	175.0	387.0	524.2	911.2	1181.2	1628.0	577.0	490.0	600.0	25.0	40.0	1562
QPR-420010-XXD	QVMS 20:010-XXS	1550.0	1560.0	807.0	600.0	PN16	DN 150	175.0	403.5	544.2	947.7	1232.7	1624.0	577.0	490.0	600.0	25.0	40.0	452
QPR-420020-XXD	QVMS 20:020-XXS	1550.0	1560.0	817.0	600.0	PN16	DN 150	175.0	403.5	544.2	947.7	1232.7	1624.0	577.0	490.0	600.0	25.0	40.0	512
QPR-420030-XXD	QVMS 20:030-XXS	1550.0	1560.0	882.0	600.0	PN16	DN 150	175.0	403.5	544.2	947.7	1232.7	1624.0	577.0	490.0	600.0	25.0	40.0	578
QPR-420040-XXD	QVMS 20:040-XXS	1550.0	1560.0	1005.0	600.0	PN16	DN 150	175.0	403.5	544.2	947.7	1232.7	1624.0	577.0	490.0	600.0	25.0	40.0	662
QPR-420060-XXD	QVMS 20:060-XXS	1550.0	1560.0	1183.0	600.0	PN25	DN 150	175.0	403.5	544.2	947.7	1247.7	1630.0	577.0	490.0	600.0	25.0	40.0	964
QVR-420080-XXD	QVMS 20:080-XXS	1550.0	1560.0	1420.0	600.0	PN25	DN 150	175.0	403.5	544.2	947.7	1247.7	1630.0	577.0	490.0	600.0	25.0	40.0	1358
QVR-420100-XXD	QVMS 20:100-XXS	1550.0	1560.0	1510.0	600.0	PN25	DN 150	175.0	403.5	544.2	947.7	1247.7	1630.0	577.0	490.0	600.0	25.0	40.0	1566
QPR-432011-XXD	QVMS 32:011-XXS	1750.0	1560.0	930.0	600.0	PN16	DN 200	205.0	440.0	583.2	1023.2	1363.2	1876.0	638.0	550.0	664.0	50.0	50.0	632
QPR-432010-XXD	QVMS 32:010-XXS	1750.0	1560.0	930.0	600.0	PN16	DN 200	205.0	440.0	583.2	1023.2	1363.2	1876.0	638.0	550.0	664.0	50.0	50.0	668
QPR-432022-XXD	QVMS 32:022-XXS	1750.0	1560.0	1000.0	600.0	PN16	DN 200	205.0	440.0	583.2	1023.2	1363.2	1876.0	638.0	550.0	664.0	50.0	50.0	738
QPR-432032-XXD	QVMS 32:032-XXS	1750.0	1560.0	1148.0	600.0	PN16	DN 200	205.0	440.0	583.2	1023.2	1363.2	1876.0	638.0	550.0	664.0	50.0	50.0	818
QPR-432042-XXD	QVMS 32:042-XXS	1750.0	1560.0	1323.0	600.0	PN16	DN 200	205.0	440.0	583.2	1023.2	1363.2	1876.0	638.0	550.0	664.0	50.0	50.0	1124
QVR-432052-XXD	QVMS 32:052-XXS	1750.0	1560.0	1541.0	600.0	PN16	DN 200	205.0	440.0	583.2	1023.2	1363.2	1876.0	638.0	550.0	664.0	50.0	50.0	1529
QVR-432060-XXD	QVMS 32:060-XXS	1750.0	1560.0	1611.0	600.0	PN25	DN 200	205.0	440.0	583.2	1023.2	1383.2	1882.0	638.0	550.0	664.0	50.0	50.0	1729
QVR-432082-XXD	QVMS 32:082-XXS	1750.0	1560.0	1886.0	700.0	PN25	DN 200	205.0	440.0	583.2	1023.2	1383.2	1882.0	638.0	550.0	664.0	50.0	50.0	2283
QVR-432102-XXD	QVMS 32:102-XXS	1750.0	1560.0	2078.0	700.0	PN25	DN 200	205.0	440.0	583.2	1023.2	1383.2	1882.0	638.0	550.0	664.0	50.0	50.0	2559

Note:

- 1 Tolerances are
 - * ±25.40 mm
 - ** ±12.70 mm
 - *** ±6.35 mm
- 2 Dimension are in mm.

- 3 -xx(d or s) in the model number represents booster voltage.
 - 400-415/3/50: -06(d or s)
 - 380/3/50: -03(d or s)
 - 400/3/50: -05(d or s)
 - 440/3/50: -08(d or s)

DESIGN ENVELOPE MODEL (DUTY-DUTY)	VMS MODEL (DUTY-STANDBY)	A*	B*	C**	D*	HEADER FLANGE RATING	G*	H**	J**	K*	L*	M*	N**	P**	R**	T*	U*	WEIGHT, kg
QPR-442011-XXD	QVMS 42:01-1A	1900.0	1560.0	971.0	600.0	PN16	DN 200	472.5	645.7	1118.2	1458.2	2026.0	727.0	618.0	750.0	50.0	23.0	780
QPR-442010-XXD	QVMS 42:01A	1900.0	1560.0	1049.0	600.0	PN16	DN 200	472.5	645.7	1118.2	1458.2	2026.0	727.0	618.0	750.0	50.0	23.0	844
QPR-442022-XXD	QVMS 42:02-2A	1900.0	1560.0	1236.0	600.0	PN16	DN 200	472.5	645.7	1118.2	1458.2	2026.0	727.0	618.0	750.0	50.0	23.0	1150
QVR-442020-XXD	QVMS 42:02A	1900.0	1560.0	1384.0	600.0	PN16	DN 200	472.5	645.7	1118.2	1458.2	2026.0	727.0	618.0	750.0	50.0	23.0	1526
QVR-442030-XXD	QVMS 42:03A	1900.0	1560.0	1463.0	600.0	PN16	DN 200	472.5	645.7	1118.2	1458.2	2026.0	727.0	618.0	750.0	50.0	23.0	1726
QVR-442042-XXD	QVMS 42:04-2A	1900.0	1560.0	1680.0	700.0	PN25	DN 200	472.5	645.7	1118.2	1464.2	2032.0	727.0	618.0	750.0	50.0	23.0	2026
QVR-442050-XXD	QVMS 42:05A	1900.0	1560.0	1812.0	700.0	PN25	DN 200	472.5	645.7	1118.2	1464.2	2032.0	727.0	618.0	750.0	50.0	23.0	2513
QVR-442060-XXD	QVMS 42:06A	1900.0	1560.0	1878.0	700.0	PN25	DN 200	472.5	645.7	1118.2	1464.2	2032.0	727.0	618.0	750.0	50.0	23.0	2710
QVR-442070-XXD	QVMS 42:07A	1900.0	1560.0	1979.0	700.0	PN25	DN 200	472.5	645.7	1118.2	1464.2	2032.0	727.0	618.0	750.0	50.0	23.0	3594
QPR-465011-XXD	QVMS 65:01-1A	1900.0	1560.0	1049.0	600.0	PN16	DN 250	489.0	712.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	856
QPR-465010-XXD	QVMS 65:01A	1900.0	1560.0	1160.0	600.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	1146
QVR-465022-XXD	QVMS 65:02-2A	1900.0	1560.0	1390.0	600.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	1522
QVR-465020-XXD	QVMS 65:02AE	1900.0	1560.0	1390.0	600.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	1866
QVR-465032-XXD	QVMS 65:03-2A	1900.0	1560.0	1610.0	700.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	2022
QVR-465030-XXD	QVMS 65:03A	1900.0	1560.0	1660.0	700.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	2605
QVR-465042-XXD	QVMS 65:04-2A	1900.0	1560.0	1729.0	700.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	2694
QVR-465052-XXD	QVMS 65:05-2A	1900.0	1560.0	1833.0	700.0	PN16	DN 250	497.0	720.2	1201.2	1606.2	2028.0	727.0	618.0	750.0	50.0	23.0	3562
QPR-485011-XXD	QVMS 85:01-1A	1950.0	1560.0	1084.0	600.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	1124
QVR-485010-XXD	QVMS 85:01A	1950.0	1560.0	1231.0	600.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	1504
QVR-485022-XXD	QVMS 85:02-2A	1950.0	1560.0	1434.0	600.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	1696
QVR-485021-XXD	QVMS 85:02-1A	1950.0	1560.0	1560.0	700.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	1984
QVR-485020-XXD	QVMS 85:02A	1950.0	1560.0	1712.0	700.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	2457
QVR-485031-XXD	QVMS 85:03-1A	1950.0	1560.0	1700.0	700.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	2633
QVR-485042-XXD	QVMS 85:04-2A	1950.0	1560.0	1813.0	700.0	PN16	DN 250	496.5	719.7	1216.2	1621.2	2028.0	727.0	620.0	750.0	50.0	45.0	3501

Note:

1 Tolerances are

* ±25.40mm

** ±12.70mm

*** ±6.35mm

2 Dimension are in mm.

3 -xx(d or s) in the model number represents booster voltage.

400-415/3/50: -06(d or s)

380/3/50: -03(d or s)

400/3/50: -05(d or s)

440/3/50: -08(d or s)

TORONTO

23 BERTRAND AVENUE,
TORONTO, ONTARIO,
CANADA, M1L 2P3
+1 416 755 2291

BUFFALO

93 EAST AVENUE, NORTH
TONAWANDA, NEW YORK,
U.S.A., 14120-6594
+1 716 693 8813

DROITWICH SPA

POINTON WAY, STONEBRIDGE CROSS
BUSINESS PARK, DROITWICH SPA,
WORCESTERSHIRE,
UNITED KINGDOM, WR9 0LW
+44 121 550 5333

MANCHESTER

WOLVERTON STREET, MANCHESTER
UNITED KINGDOM, M11 2ET
+44 161 223 2223

BANGALORE

#18, LEWIS WORKSPACE, 3RD FLOOR,
OFF MILLERS - NANDIDURGA ROAD,
JAYAMAHAL CBD, BENSON TOWN,
BANGALORE, INDIA 560 046
+91 80 4906 3555

SHANGHAI

UNIT 903, 888 NORTH SICHUAN RD.
HONGKOU DISTRICT, SHANGHAI
CHINA, 200085
+86 21 5237 0909

BEIJING

ROOM 1612, NANYIN BUILDING NO.2
NORTH EAST THRID RING ROAD
CHAOYANG DISTRICT, BEIJING,
CHINA 100027
+86 21 5237 0909

SÃO PAULO

RUA JOSÉ SEMIÃO RODRIGUES
AGOSTINHO, 1370 GALPÃO 6 EMBU
DAS ARTES, SAO PAULO, BRAZIL
+55 11 4785 1330

LYON

93 RUE DE LA VILLETTE
LYON, 69003 FRANCE
+33 4 20 10 26 21

DUBAI

JAFZA VIEW 19, OFFICE 402
P.O. BOX 18226 JAFZA,
DUBAI - UNITED ARAB EMIRATES
+971 4 887 6775

JIMBOLIA

STR CALEA MOTILOR NR. 2C
JIMBOLIA 305400, JUD.TIMIS
ROMANIA
+40 256 360 030

FRANKFURT

WESTERBACHSTRASSE 32,
D-61476 KRONBERG IM TAUNUS
GERMANY
+49 6173 999 77 55

ARMSTRONG FLUID TECHNOLOGY®
ESTABLISHED 1934

ARMSTRONGFLUIDTECHNOLOGY.COM